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VISITORS

Visitors to the College are welcome and student guides are available. The administrative offices in Green Hall are open Monday through Friday from 8:30 A.M. to 5:00 P.M.

The Board of Admission office is open on most Saturday mornings during the college year. Visitors to this office are advised to write in advance for an appointment and are requested to plan their visits for times other than the month of April, when the Board meets to select the entering class.

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The post office address is Wellesley College, Wellesley 81, Massachusetts. Inquiries concerning the following topics should be sent to:

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Academic policies of the College

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Admission of undergraduate students

THE DEAN OF STUDENTS; CLASS DEANS
Individual students

THE DIRECTOR OF RESIDENCE
Residence halls and social regulations

THE RECORDER
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THE DIRECTOR OF THE PLACEMENT OFFICE
Alumnae and undergraduate employment

THE INFORMATION BUREAU
Requests for Catalogues

THE CHAIRMAN OF THE COMMITTEE ON GRADUATE INSTRUCTION
Admission of graduate students

THE ASSISTANT TREASURER
Payment of college bills

THE EXECUTIVE SECRETARY OF THE ALUMNAE ASSOCIATION
Alumnae affairs

CALENDAR

Academic Year 1956-57

First Semester

Registration of new students, 9 A.M. to 10:30 P.M.
Monday, September 24

Registration closes for all other students, 11:00 P.M.
Wednesday, September 26

Classes begin ..... Friday, September 28

Thanksgiving recess { after classes ..... Wednesday, November 21
to 1:00 A.M. ..... Monday, November 26

Christmas recess { after classes ..... Tuesday, December 18
to 1:00 A.M. ..... Monday, January 7

Examinations { from ..... Tuesday, January 29
through ..... Thursday, February 7

Second Semester

Classes begin ..... Monday, February 11

Spring recess { after classes ..... Saturday, March 30
to 1:00 A.M. ..... Wednesday, April 10

Examinations { from ..... Tuesday, May 28
through ..... Thursday, June 6

Commencement ..... Monday, June 10

Academic Year 1957-58

First Semester

Registration of new students, 9 A.M. to 10:30 P.M.
Monday, September 23

Registration closes for all other students, 11:00 P.M.
Wednesday, September 25

Classes begin ..... Friday, September 27

Thanksgiving recess { after classes ..... Wednesday, November 27
to 1:00 A.M. ..... Monday, December 2

Christmas recess { after classes ..... Wednesday, December 18
to 1:00 A.M. ..... Monday, January 6

Examinations { from ..... Tuesday, January 28
through ..... Thursday, February 6

Second Semester

Classes begin ..... Monday, February 10

Spring recess { after classes ..... Saturday, March 29
to 1:00 A.M. ..... Wednesday, April 9

Examinations { from ..... Tuesday, May 27
through ..... Thursday, June 5

Commencement ..... Monday, June 9

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[1] Absent on leave.
[5] Appointed for the second semester only.

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[1] Absent on leave.
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[3] Absent on leave for the second semester.

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[1] Absent on leave.
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ANNE ELIZABETH DAVIDSON, B.A., Vassar College; M.A., Columbia University — *Instructor in English*

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MILDRED ELIZABETH DENDY — *Instructor in Physical Education*

IDA BLANCHE DE PUY, B.A., Wellesley College; M.Litt., University of Pittsburgh — *Instructor in Spanish*

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ARNOLD GEISSBUHLER[4] — *Instructor in Art*

DANTE LEE GERMINO, B.A., Duke University; M.A., Ph.D., Harvard University — *Instructor in Political Science*

[4] Appointed for the first semester only.

KLAUS GOETZE — *Instructor in Piano*

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JAMES KERANS, B.A., M.A., Ph.D., Harvard University — *Instructor in English*

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ISABEL STEWART MACQUARRIE, B.A., University of Manitoba; M.A., Washington University — *Instructor in Mathematics*

SYLVIA PERERA MASSELL, B.A., M.A., Radcliffe College — *Instructor in Art*

PAUL MATTHEN, B.A., Bard College — *Instructor in Voice*

WILHELMINA DESDA MCFEE, B.S., Sargent College, Boston University; M.S., Smith College — *Instructor in Physical Education*

JAMES PAPPOUTSAKIS — *Instructor in Flute*

GRETCHEN PAULUS, B.A., Radcliffe College; M.A., University of Toronto — *Instructor in English*

DORIS ISABELLE PAYNE, B.A., Pembroke College; M.F.A., Yale University — *Instructor in Speech*

THÉRÈSE MICHELINE PICAVET, B.A., Regis College; M.A., Brown University — *Instructor in French*

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MELVILLE SMITH, B.A., Harvard University *Instructor in Organ*
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HILDA WEYL SOKOL,[5] B.A., Hunter College; M.A., Radcliffe College *Instructor in Zoology*
LYDIA IOLE SOLIMENE, B.A., M.A., Wellesley College *Instructor in Italian*
GWENDOLYN MAE STOSE, B.A., M.S., Wellesley College *Instructor in Physical Education*
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ESTHER PASTENE EDWARDS,[5] B.A., Wellesley College; M.A., Boston University *Lecturer in Education*

[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

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[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

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DORIS ELSIE DRESCHER, B.S.	*Assistant to the Director of Residence*
VIRGINIA PHILLIPS EDDY, B.A.	*Secretary to the President*
DORIS KIRKHAM GRANT	*Assistant, Office of Admission*
MARION KENNISTON GRANT	*Secretary, Committee on Scholarships*
DOROTHY JANDA HENDRICKSON, B.A.	*Secretary, Office of the Deans*
MARION JOHNSON, B.A.	*Secretary to the Deans*
ALICE STETSON KELLEY, B.A.	*Assistant to the Recorder*
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BARBARA DILLON LAUX, B.S.	*Placement Counselor*
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Secretary in the Department of Sociology and Anthropology
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Secretary and Custodian in the Department of Chemistry
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Registrar in the Department of Physical Education
RUTH CONKLIN KENNELLY *Secretary in the Department of Economics*
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MARGARET MARSH STEELE, B.A.
Secretary and Custodian in the Departments of Geology and Geography
KAREN MARTIN STORY, B.A.
Custodian of the Art Library and of Slides and Photographs
MILDRED L. THORNTON *Secretary in the Department of French*
MARION WING, M.A. *Assistant in the Department of Political Science*

THE COLLEGE

Wellesley College is a liberal arts college for women situated in the township of Wellesley twelve miles west of Boston. The four hundred acre campus was once the country estate of Henry Fowle Durant, a wealthy Boston lawyer. In the 1860's Mr. Durant and his wife, moved by religious convictions, decided to establish a residential college that would "offer to young women opportunities for education equivalent to those usually provided in colleges for young men." It was Mr. Durant's hope that in this college young women could prepare themselves "for great conflicts, for vast reforms in social life, for noblest usefulness." The decision was followed by years of preparation until the College received a charter in 1870 and in 1875 was opened to three hundred and fourteen students.

The resources and size of the College grew steadily. The single building with which Wellesley started, College Hall, housed all students and faculty and contained the library, chapel, classrooms, and laboratories. As the number of students increased, other buildings were added, but College Hall remained the center of community life until it was destroyed by a great fire in 1914. Gradually Wellesley was rebuilt; in place of one enormous structure housing many activities, buildings for special uses were erected on the various hills on the campus.

Today more than forty buildings provide facilities for the intellectual and community life of the College. Fourteen of them are residence halls for undergraduate students. Most of the halls are large, with the result that the student, who finds that academic instruction is usually given in small groups, finds that in the course of her residence she forms a wide acquaintance with people who come from many different regions.

Wellesley believes that the study of the liberal arts develops perspective and intellectual strength for the endeavors of a lifetime. It seeks to give to the student broad knowledge of her cultural heritage and to develop her competence in and respect for disciplined, honest thinking. These purposes of the College have remained constant since its founding, while the particulars of its programs are frequently revised under the influences of the changing contemporary world.

The faculty is composed of nearly 180 men and women, trained in many different universities here and abroad and chosen to maintain Wellesley's tradition of good teaching and sound scholarship. The student body includes approximately 1,700 young women who bring to the community the cultural, economic, and regional diversity of the United States, and also representation of many foreign countries. Because of the size and composition of the College the student meets a wide range of view-

points and fields of special interest; yet she finds that the policies of the modern Wellesley permit education to be an individual process as it was when the College began.

Most classes are small enough to make possible the exchange of ideas between student and teacher and to enable the faculty to know and plan for the needs of each individual. The student is not provided with a required "core" curriculum but in the freshman and sophomore years is asked to elect from many available courses work in the humanities, the social sciences, and the sciences. In this way she builds at once on her own earlier education and her present interests while developing with her fellows a basic community of understanding of the liberal arts.

As soon as she wishes and at the latest by the end of the sophomore year, she selects a major. Within her major department she continues to develop her particular interests by choosing her special work from its offering of advanced courses, seminars, and guided independent study, while limitation of the amount of specialization safeguards the broadly liberal purpose of the four-year undergraduate curriculum.

The student is expected to take the initiative in planning her program and in meeting her academic and residential obligations. At various times before reaching decisions she may need counsel or may wish to talk freely with an older person about her academic or personal life. At such times she can turn easily to her class dean who keeps in constant, unobtrusive touch with her academic progress and her personal welfare, or to the teachers of her courses, the chairman of her major department, the resident head of her house, the director of the Chapel, or the college psychiatrist or resident physicians. If she has financial difficulties, she may turn to the secretary of the Committee on Scholarships. If she wishes paid work during the academic year or in vacations, or if as a graduating senior or an alumna she wishes employment, the director of the Placement Office is prepared to help her. Because maturing independence is respected, advice is not thrust upon the student, but it is readily available from experts in various areas and from intelligent adults interested in each individual.

The learning situation created by student and teacher is strengthened by the quality of the physical facilities available for their use. At Wellesley the student of the biological or physical sciences finds laboratories unusually well equipped for undergraduate work and having in addition equipment for the work of graduate students and professors, whose research activities she may be invited to share. The student of art finds in the permanent collections on the campus a representative selection of monuments and extensive collections of slides and photographs, as well as rotating loan exhibits. The student of music finds listening rooms where she has access to large libraries of records and practice rooms equipped

with grand pianos. The student of language has records and recording machines available for her use, and for interested students of French or Spanish special residential corridors are maintained. Any student interested in the young child may observe and work with children in the college laboratory school for boys and girls from three to six years of age.

Every student benefits from library collections which are unusual in size and quality for an undergraduate college. The working library contains approximately 300,000 volumes carefully selected to meet the needs of the faculty as well as the students. Subscriptions to more than 1,000 American and foreign periodicals and the deposit of certain Government publications important to the student of the social sciences add to its usefulness. Special collections, containing rare items as well as important collateral works, offer opportunities for research to the undergraduate student and the advanced scholar. The College is fortunate in having distinguished collections in English poetry, Italian literature, Medieval European literature, and on the Far East. Except for the rare volumes in these and other special collections, books are kept on open shelves to which the student has immediate access.

A broad program of extracurricular activities, made possible by the size and residential character of the College, supplements the liberal arts curriculum. From them the student chooses those which will contribute most to her enjoyment and growth. She may attend lectures by distinguished scholars, readings by poets, concerts given by famous artists, and art, book, and scientific exhibits. Through participation in various organizations she may test and develop interests in such areas as music, theater, athletics, journalism, radio, social service, political and civic activity. Whatever her special interest, she finds opportunity to associate informally and to work cooperatively with others.

Some of the student groups, such as choir and theater, have professional direction; most are organized and conducted entirely by students. Two of them, the Chapel Organization and the College Government Association, are sponsored jointly by students and faculty. The Chapel Organization arranges daily services led by members of the community and Sunday services led by well-known ministers, at all of which attendance is voluntary. It also coordinates the interests of denominational and interfaith clubs which are welcomed at Wellesley although the College itself is a Christian, non-denominational institution. The College Government Association, to which all students belong, has executive, legislative, and judicial branches with elected student and faculty representatives, in each of which student representatives form the majority. This Association, which charters all extracurricular organizations, establishes committees such as the Student Curriculum Committee, and determines social and residential

regulations, supports the methods and spirit of responsible democracy.

The student may also participate in the activities of the larger community of which Wellesley is part. The nearness of Boston and Cambridge makes the resources of these two cities readily accessible for recreation, for field work in the social sciences, and for cultural enrichment. For example, the department of Music brings to the College members of the Boston Symphony Orchestra and other musicians from Boston to give instruction in vocal and instrumental music, while many departments recommend to students afternoon or evening trips to the neighboring cities for various special events.

The present college is in marked contrast to the small faculty and student body, the one building, the collection of eight thousand books, and the restricted social life with which Wellesley started. Yet the serene beauty of the campus remains unchanged, and the student now as always finds opportunity to develop her standards of ethics and taste, of personal and civic responsibility, and her intellectual and creative gifts.

PRESIDENTS

Ada Howard (1875-1881)
Alice Freeman (1881-1887)
Helen Shafer (1887-1894)
Julia Irvine (1894-1899)
Caroline Hazard (1899-1910)
Ellen Fitz Pendleton (1911-1936)
Mildred McAfee Horton (1936-1949)
Margaret Clapp (1949-)

THE CURRICULUM

The curriculum is designed to give a sound education in the liberal arts. Basic to the plan are the concepts of breadth and depth in learning. To achieve breadth each student is asked to select a number of courses distributed among several representative fields of knowledge. In this part of her work she will become acquainted with ways of thinking and with significant content in these several disciplines. Also, each student is asked to choose a field of concentration consisting of a major and allied subjects. In this work she will gain a deeper understanding of one field of knowledge and the competence which comes from continued training and advanced study. In addition to fulfilling these requirements each student chooses some courses without any restriction.

The general plan of the curriculum provides the framework within which the student, assisted by her academic advisers, constructs a program suited to her individual interests.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Each candidate for the degree of Bachelor of Arts is required to complete 114 semester hours* of academic work. The normal period of time in which to earn the degree is four years and a normal program of study consists of five courses (15 hours) in each semester of the first three years, and four courses (12 hours) in each semester of the senior year.

Required Courses

English 100 (freshman year) 6 hours

Biblical History 104 (sophomore year) 6 hours

Physical Education, two periods a week in the freshman and sophomore years (no academic credit)

Distribution of Studies

Twelve hours (two year courses or their equivalent in semester courses) are to be elected as indicated from each of the three groups of subjects listed below. Of the 36 hours required for distribution, at least 24 hours are to be taken in the freshman and sophomore years. It is permitted, and in many cases it may be desirable, to postpone until junior and senior years 12 hours, not more than 6 hours in each of two groups. Because in some departments certain courses do not count for distribution, in electing courses to meet this requirement students should consult the "Directions for Election" of each department.

* All references in this catalogue are to semester hours, one hour representing one class appointment a week for a semester, or its equivalent.

Group I. Literature, Foreign Languages, Art and Music.

Departments of English, French, German, Greek, Italian, Latin, Russian, Spanish, Art, Music.

Twelve hours are to be elected in Group I, 6 in one department and 6 in one or two other departments. Of the 12 hours in this group, at least 6 hours must be in literature, English or foreign: courses in English literature*, courses in Greek, Latin or Russian literature in translation, courses in a foreign language in which the main emphasis is on literature.

Group II. Social Science, History and Philosophy.

Departments of Economics, Political Science, Sociology and Anthropology, History, Philosophy.

Twelve hours are to be elected in Group II: 6 hours in economics, or political science, or sociology and anthropology; 6 hours in history or philosophy.

Group III. Science.

Departments of Astronomy, Botany and Bacteriology, Chemistry, Geography, Geology, Mathematics, Physics, Psychology, Zoology and Physiology.

Twelve hours are to be elected in Group III, 6 in one department and 6 in one or two other departments.** Of the 12 hours in this group, at least 6 hours must be in a laboratory course in one of the following: astronomy, botany, chemistry, geology, physics, zoology, the interdepartmental courses in biology or in physical science. The remaining 6 hours may be taken in courses either with or without laboratory work.

Students who have not taken a recent course in biology in school should consider the advisability of electing botany, zoology or Interdepartmental 103. Those who have not taken a recent course in chemistry or physics in school should consider the advisability of electing one of the physical sciences: astronomy, chemistry, geology, physics or Interdepartmental 106.

FIELD OF CONCENTRATION

At least 42 hours are to be elected in one field of concentration. This includes a major of 24 or more hours in one department and 18 to 12 hours in courses related or supplementary to the major but falling in one or more departments other than that in which the major is taken.

Courses are classified in grades I, II, III; grade I indicating elementary courses and grade III the most advanced courses. Of the 42 hours in the field of concentration, at least 18 hours must be above grade I; at least 12

* English courses with emphasis on writing may not count for distribution.

** If Interdepartmental 103 or 106 is elected, the remaining 6 hours must be taken in departments not included in the interdepartmental course.

hours must be grade III; and at least 6 hours of grade III must be taken in the senior year.

Courses taken in fulfillment of the distribution requirement may be counted in the 42 hours in the field of concentration unless otherwise specified by the department.

In the freshman year students will begin to give thought to the choice of their major subjects. In the second semester of the sophomore year each student elects a major subject and prepares for the Recorder a provisional statement of the courses to be included in the field of concentration. Occasionally a student may wish to plan a field of concentration which is centered about the study of an area, a period, or a subject cutting across the lines of departmental organization. The following are listed as a few examples of numerous possibilities: the United States, Latin America, Asia; the Middle Ages, the Renaissance; International Relations, Natural Resources. A student who thinks she might be interested in a program of this kind should consult her class dean and the chairman of the appropriate departments as soon as possible in her college course to plan a coherent sequence of courses. In any case the final plan for the field of concentration must be presented to the Recorder not later than the spring of the junior year, after consultation with the chairman of the department in which the student intends to take her major or with one delegated by the chairman.

All departments of the college offer major courses of study except the following: Education, Physical Education, Russian, Speech.

FOREIGN LANGUAGE REQUIREMENT

Each candidate for the degree of Bachelor of Arts must show before graduation that she has some proficiency in the use of at least one foreign language, ancient or modern. This requirement may be met by passing one of the language tests of the College Entrance Examination Board at a score of at least 580, or by the completion of a 6 hour course in college at the second year level or higher. The following courses are of the second year level: French 102, German 102, Greek 201, 202, 205, Italian 201, 204, Latin 103, Russian 200, Spanish 102.

GENERAL EXAMINATION

At the end of the senior year each candidate for the degree of Bachelor of Arts must pass a general examination in her major subject, unless as a candidate for honors she is asked to pass special examinations taken in place of the general examination.

The general examination is intended to test the accuracy, extent, and depth of a student's knowledge of one subject (or field); her intellectual initiative and independence in analyzing, organizing, and relating the

material of that subject; her knowledge of and ability to apply leading ideas met in that subject.

Supplementary Directions

Within the 114 hours required for the degree, the student is permitted to elect:

(1) Not more than 42 hours in any one department

(2) Not more than two of the following courses: French 101, German 101, Italian 101, Russian 100, Spanish 101

(3) No studio work in Art without the required amount in the history of art (see department statement)

(4) Not more than 18 hours in Education

(5) Not more than 15 or 18 hours in Speech (see department statement)

The program for the senior year may not include more hours of Grade I work than of Grade III.

Standard for Graduation

To be recommended for the degree of Bachelor of Arts a student must complete 114 semester hours of academic work with a credit ratio of at least 1.75 in each semester, which represents an average grade between C— and C; and she must pass the general examination or an honors examination.

Residence Requirement

A candidate for the degree of Bachelor of Arts must be in residence at Wellesley College for at least two years, one of which must be the senior year.

Standard of Written and Spoken English

Students are expected to use good English in their written work in all departments. A student in any class who fails to maintain acceptable standards may be referred to the department of English for remedial work.

Students are also expected to maintain good standards of spoken English. The department of Speech gives speech tests to incoming freshmen. Those who are found in need of corrective work are given an opportunity to undertake it.

HONORS IN THE MAJOR SUBJECT

Students who have shown marked excellence and an unusual degree of independence in their work in the major subject may receive the Bachelor of Arts degree with Honors in the Major Subject. Under a program called Special Honors an eligible student may be invited to undertake a piece of independent investigation in which her work will be

supervised by a member of the faculty; the successful completion of the independent work and of an honors examination leads to the award of Honors in the Major Subject. Under a plan called General Honors this same award may be made to students who have shown an unusual degree of independence or distinction in courses in the major subject, who have elected a sound program in the field of concentration, who have used summer time constructively for reading or field or laboratory work to supplement college courses, and who have written an excellent general examination.

The intent behind both plans is to single out the most able scholars for this recognition. To be recommended for this award the student, in addition to showing marked excellence in her major subject, must maintain a good general average in all her academic work.

GENERAL INFORMATION

Course Examinations

An examination period occurs at the end of each semester. Examinations for the removal of conditions and deficiencies and for advanced standing may be taken during any examination period and at other specified times.

A student who wishes to take an examination upon a course which is not a part of her approved schedule for the year must apply to the Recorder for the requisite card of admission to the examination.

Advanced Placement and Exemption Examinations

To enable those students who are best prepared for college work to enter advanced courses as early as possible, examinations are offered by many departments. Students who pass these examinations will, in certain departments, be admitted directly to grade II courses. These examinations may also be taken to satisfy part of the distribution requirement but a student may thus anticipate no more than 6 of the 12 hours required for distribution in each of the three groups of studies.

Placement or exemption examinations in those departments which give them are described after the directions for election of work in the department. A student who wishes to apply for one or more of these examinations should write to the Recorder.

A student who in secondary school has taken advanced courses in one or more subjects and has passed satisfactorily the Advanced Placement Tests of the College Entrance Examination Board should consult her class dean concerning admission to advanced courses. If a student wishes to receive credit for the degree for an advanced course taken in secondary school, she will be required to take an examination at Wellesley.

Use of the Summer Vacation

Students are encouraged to make constructive use of the long summer vacations, supplementing in them the work and activities of the academic year. Several possibilities are recognized, for example, field or laboratory work, vocational experience, and serious and ordered reading. It is expected that all students will undertake some serious reading, and to assist them in planning it a general book list is given to freshmen for use throughout their college years. Also, for sophomores and juniors, major departments prepare more specialized lists in which the suggested reading is designed to enrich the student's knowledge of her major subject.

The Summer Internship in Government

The College sponsors with Vassar a program that enables students from various departments to learn at first hand of the operations of the Federal Government. Students who are accepted for the program spend six weeks in Washington during the summer preceding their senior year. A member of the faculty arranges assignments for them in various government bureaus, Congressional offices, and headquarters of the Democratic and Republican National Committees, and meets regularly with the interns during the six weeks.

The Junior Year Abroad

Qualified students may apply for admission to the various groups spending the junior year in Europe. Wellesley students may study in Paris under the plan sponsored by Sweet Briar College, or in Munich under the auspices of Wayne University, or in Florence, Geneva or Madrid with groups organized by Smith College. A student who wishes to join one of these groups must have a good academic record and competence in the language of the country in which she plans to study; in general two years of study of the language at the college level are necessary to provide adequate preparation. In advance of making application, a student must have the approval of the chairman of her major department and of her class dean.

PREPARATION FOR GRADUATE STUDY

The Arts and Sciences

The undergraduate work of the College provides preparation for graduate study in the arts and sciences. A student who is interested in preparing to undertake work leading to the M.A. or Ph.D. degree should consult her class dean and the chairman of her major department. It should be noted that for graduate study in many fields a reading knowl-

edge of two languages is required. The student should consult the chairman of her major department or of the department in which she hopes to pursue graduate work to learn which languages will be most useful in her subject or field of interest.

THE PROFESSIONS

In her undergraduate work a student may meet the requirements for the B.A. degree and at the same time prepare to enter professional schools, for example, Architecture, Law, Medicine, Social Service Administration, Teaching. A sound education in the liberal arts is considered the best preparation for admission to most professional schools but a student who is interested in any one of the professions should consult her class dean to discuss the particular emphasis which she should make in her undergraduate program. She should also consult as soon as possible the catalogue of the graduate school which she has chosen.

PREPARATION FOR TEACHING

Some teaching positions in public as well as in private schools are open to college graduates without further study, although a year of graduate work is required for teachers in many public school systems. Interesting programs have been developed by various states and universities which are designed particularly to prepare graduates of liberal arts colleges for teaching positions.

Wellesley is one of a group of colleges affiliated with the Harvard Graduate School of Education in a program which affords graduates of the cooperating colleges special opportunities for practice teaching in the summer, for paid teaching internships during the regular school year, and for graduate study at Harvard.

A student who cannot plan for graduate work immediately after college is advised to consider enrolling, during the summer following her junior year, in one of several summer programs which provide courses in methods in conjunction with supervised practice teaching.

A student who intends to teach should consult the chairman of the Education Department about requirements for certification and ways of preparing to meet them.

PREPARATION FOR MEDICAL SCHOOL

A student who is planning to study medicine is advised to elect two pre-medical sciences in the freshman year. In general, the minimum requirements for admission to recognized medical schools can be met by 16 hours in chemistry (which must include a course in organic chemistry),

8 hours in physics, and 8 hours in zoology.* Since there is wide variation in the minimum requirements and since the requirements are in the process of change, greater emphasis, in general, being placed on the importance of a liberal education as a preparation for medical studies, each student should consult the most recent catalogue of the particular school which she has chosen. It is possible to fulfill the minimum requirement for medical school and to take the general examination in a field not required for entrance. A student is, therefore, advised to major in the field of her greatest interest. Students wishing to prepare for medical school should consult Professor Helen T. Jones, department of Chemistry.

PREPARATION FOR HOSPITAL AND PUBLIC HEALTH WORK

A student planning to prepare for work in hospital or public health laboratories should begin both chemistry and zoology in the freshman year in order to have the necessary foundation for advanced courses in these subjects and for courses in bacteriology. Students should consult their class deans for advice in planning their programs.

PREPARATION FOR CIVIL SERVICE

A student wishing to qualify for examinations offered by the United States Civil Service Commission or various state and local civil service agencies should consult her major department and the Placement Office about current requirements and appropriate combinations of courses. For many positions some training in statistics and public administration is desirable; graduate work is a qualification for many of the more important posts.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

A candidate for the degree of Master of Arts is required to complete 24 hours of graduate work, which may include a thesis embodying the results of original research. The program is arranged by the student's major department and is subject to the approval of the Committee on Graduate Instruction. A reading knowledge of French or German, to be tested by examination *at entrance,* is required. Individual departments may require a second language. At least one year in residence is required of all candidates.

Information regarding admission, living arrangements, graduate assistantships and scholarships will be found in the bulletin, *Graduate Study at Wellesley College,* which will be sent upon application to the Chairman of the Committee on Graduate Instruction.

* For purposes of admission to medical schools a course which meets for 3 hours of lecture and 3 hours of laboratory work each week throughout the year may be considered the equivalent of an 8-hour course.

COURSES OF INSTRUCTION

1956-57

The following courses of instruction are offered by the several departments. The College reserves the right to withdraw any course not chosen by at least six students.

All courses are classified in grades I, II, III; grade I indicating elementary courses and grade III the most advanced courses. Grade I courses are numbered 100, etc.; grade II courses 200, etc.; grade III courses 300, etc.

The first semester is indicated by (1) following the course number; the second semester by (2). Courses not so designated are year courses. The number of hours of credit appears in parentheses following the course title.

Classes are scheduled from Monday morning through Saturday morning. Most courses meet three times a week, usually on Monday, Wednesday, and Friday, or on Tuesday, Thursday, and Saturday; seminars usually hold one three-hour meeting weekly.

ART

Professors: Bernard Chapman Heyl,[3] M.F.A.; John McAndrew, M.Arch., director of the art museum

Associate Professors: Agnes Anne Abbot (Chairman); Teresa Grace Frisch, Ph.D.; Diether Thimme.[2]

Assistant Professor: Elizabeth Holmes Frisch.[2]

Instructors: Arnold Geissbuhler;[4] Richard Boyce; Lois Carol Swirnoff, M.F.A., Curtis Howard Shell, M.A.; Ann Helen Rosten, M.Arch.; Johanna Chaie Sandman, M.A. in teach.; Sylvia Perera Massell, M.A.

Visiting Lecturer: Eleanor Dodge Barton, Ph.D.

History of Art

Many of the courses in art include some laboratory work in the one or more mediums with which the course is concerned. The department believes that laboratory training has great value in developing observation and understanding of artistic problems, and for this reason requires it of majoring students. It should be stated, however, that no particular natural aptitude is required and that the work is adjusted to the student's ability.

100. Introductory Course (6 hrs.)

The major styles in Western architecture, sculpture, and painting from ancient times to the present. A foundation for further study of the history of art. Simple laboratory work (requiring no previous training or artistic skill) planned to give the student a greater understanding of artistic problems. Open without prerequisite to freshmen and sophomores. *The Teaching Staff*

[2] Absent on leave for the first semester.

[3] Absent on leave for the second semester.

[4] Appointed for the first semester only.

201 (2). GREEK SCULPTURE (3 hrs.)

The development of Greek sculpture from its origins through the Hellenistic age. Study of focal monuments and artists in each successive period. Laboratory work, consisting largely of modeling and carving. Open to sophomores who have taken 100 and to juniors and seniors without prerequisite.

Mr. Thimme, Miss Swirnoff

202 (1). MEDIEVAL SCULPTURE (3 hrs.)

Western European sculpture of the Romanesque and Gothic periods, introduced by a brief study of pre-Romanesque art. Laboratory work consisting largely of modeling and carving. Prerequisite, same as for 201.

Miss Frisch, Miss Abbot

203 (2). MEDIEVAL ARCHITECTURE (3 hrs.)

The architecture of Western Europe from the Fall of Rome to the beginning of the Renaissance, with particular concentration on the great Romanesque and Gothic monuments. Occasional laboratory work. Prerequisite, same as for 201.

Mr. McAndrew, Miss Rosten

207 (2). ART OF THE FAR EAST (3 hrs.)

A study of the art of India, China, and Japan, with particular emphasis on China. No laboratory work. Open to juniors and seniors without prerequisite.

Miss Frisch

209 (2). ART OF THE ROMAN EMPIRE (3 hrs.)

The major monuments of architecture, sculpture, and painting in the Roman Empire from the formation of the Roman style through the Late Antique. Emphasis upon Roman contributions to the main tradition of Western art. No laboratory work. Prerequisite, same as for 201. *Mr. Thimme*

215 (1). EUROPEAN ART THROUGH THE RENAISSANCE (3 hrs.)

The major movements in architecture, sculpture and especially painting from classical antiquity to about 1550. No laboratory work. Open to sophomores who have taken History 101 or Italian 101 or 103, and to juniors and seniors who have not taken or are not taking Art 100. *Miss Barton, Mr. Shell*

216 (2). POST-RENAISSANCE AND MODERN ART (3 hrs.)

Western art from the beginning of the 17th century to the present. No laboratory work. Open to sophomores who have taken 215 and to juniors and seniors who have not completed or are not taking 100, 218, or 219.

Miss Barton

218 (1). BAROQUE PAINTING (3 hrs.)

European painting of the 17th and 18th centuries. No laboratory work. Open to sophomores who have taken 100 and to juniors and seniors without prerequisite. Not open to students who have taken 216. *Mr. Heyl*

219 (1). NINETEENTH CENTURY PAINTING (3 hrs.)

A study of painting of the 19th century in Europe and America with emphasis on France. No laboratory work. Open to sophomores who have taken 100 and to juniors and seniors withut prerequisite. Not open to students who have taken 216. *Mr. Heyl*

301 (2). SEMINAR IN ANCIENT ART (3 hrs.)

Intensive study of one or more of the fundamental problems in the history of Ancient Art. No laboratory work. Open to juniors and seniors who have completed 201 or 209. (Not offered in 1956-57.) *Mr. Thimme*

302 (1). STUDIES IN ITALIAN PAINTING: THE 14TH AND 15TH CENTURIES (3 hrs.)

A brief exposition of late medieval style in Italian painting, followed by studies of selected artists whose work significantly illustrates the character of Early Renaissance style. Particular attention to Florentine masters. Laboratory work included. Open to juniors and seniors who have taken 100 and, by permission, to especially qualified students. *Mr. Shell, Mr. Boyce*

303 (2). STUDIES IN ITALIAN PAINTING: THE 16TH CENTURY (3 hrs.)

Studies of the major masters of the High Renaissance style, followed by the examination of some selected Mannerist painters, and of those developments within 16th century painting which lead in the direction of the Baroque. Considerable attention to Venetian masters. Laboratory work included. Prerequisite, same as for 302. *Mr. Shell, Mr. Boyce*

304 (2). RENAISSANCE, BAROQUE, AND MODERN SCULPTURE (3 hrs.)

A study of the major sculptors from the 15th century to the present. Laboratory work consisting largely of modeling and carving. Open to students who have taken 100 or 215 and, by permission, to especially qualified students. *Miss Barton, Miss Abbot*

305 (2). MODERN PAINTING (3 hrs.)

A study of European and American painting in the 20th century. Prerequisite, same as for 302. Laboratory work included. *Mr. McAndrew, Mrs. Frisch, Miss Swirnoff*

306 (1). ENGRAVING AND ETCHING FROM THE RENAISSANCE TO THE PRESENT TIME (3 hrs.)

The rise and development of engraving and etching including comparisons with the allied arts of woodcutting, mezzotinting, and lithographing, and a brief study of technical processes. Frequent visits to the Boston and Fogg museums. Open to juniors and seniors who have completed 100. (Not offered in 1956-57.)

307 (2).* PROBLEMS IN MEDIEVAL STYLE AND TECHNIQUE (3 hrs.)

Study of selected manuscripts, mosaics, and wall paintings in Italy between the 4th and the 13th centuries, with experiments in the medium concerned, for closer stylistic and technical analysis. Prerequisite, same as for 302. *Miss Abbot*

308 (1). RENAISSANCE AND BAROQUE ARCHITECTURE (3 hrs.)

The Early and High Renaissance, Mannerist and Baroque styles of the 15th through the 18th centuries, with particular emphasis on Italy. No laboratory work. Prerequisite, same as for 304. Two periods a week with a third at the pleasure of the instructor. (Not offered in 1956-57.) *Mr. McAndrew*

* Offered in alternate years.

309 (1). MODERN ARCHITECTURE (3 hrs.)

The development of modern architecture in Europe and America in the last seventy years. Prerequisite, same as for 302. *Mr. McAndrew, Miss Rosten*

311 (1). PAINTING OF NORTHERN EUROPE (3 hrs.)

The period from the late 14th century to the mid-16th century in France, Germany, and the Low Countries. Prerequisite, same as for 304. *Miss Barton, Miss Swirnoff*

325 (1). THE NATURE AND CRITICISM OF ART (3 hrs.)

An analysis of various different approaches to the study of art, and a consideration of the theory, history, and practice of art criticism. Open, by permission of the instructor, to seniors who have completed or are taking six additional hours of grade III work in art. *Mr. Heyl*

330 (2).* SEMINAR IN ITALIAN PAINTING (3 hrs.)

Intensive study of one or more of the fundamental problems in the history of Italian painting. Open, by permission of the instructor, to a limited number of juniors and seniors who have taken 302 or 303. *Mr. Shell*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Independent work on special problems under direction of one or more members of the department. Open, by permission, to juniors and seniors who have completed or are taking a course of grade III.

STUDIO COURSES

Six hours of studio work may count toward the degree after six hours in the history of art have been completed; and twelve hours after twelve hours in the history of art have been completed.

105 (1). DRAWING AND SCULPTURE (3 hrs.)

Study of drawing and sculpture, with strong emphasis on design. Abstract problems in line and in relief, as well as portraiture and figure sketching. Open to sophomores, juniors, and seniors and, by permission, to freshmen who have studied art before entering college. Six periods of class instruction and three of studio practice. *Mr. Geissbuhler*

106 (2). INTRODUCTORY PAINTING (3 hrs.)

Strong emphasis on design. Spatial and tonal problems partly abstract, partly representational, worked out in a variety of mediums. Open to sophomores, juniors, and seniors and, by permission, to freshmen who have studied art before entering college. Six periods of class instruction and three of studio practice. *Mrs. Frisch, Miss Swirnoff*

206 (1). WATERCOLOR AND OIL PAINTING (3 hrs.)

Landscape, still life, and painting from model. Open to sophomores, juniors, and seniors who have completed 100, 105, or 106. Six periods of class instruction and three of studio practice. *Mr. Boyce*

* Offered in alternate years.

208 (2). COMPOSITION (3 hrs.)

Principles of design related to various types of composition. Problems may take the form of book illustration, painting and mural decoration, etc. Open to sophomores, juniors, and seniors who have completed 105, 106, or 206. Six periods of class instruction and three of studio practice *Mr. Boyce*

211 (1). THE IMAGINATIVE METHOD IN PAINTING. I (3 hrs.)

The projection and development of ideas in the making of a picture. Open by permission of the instructor to juniors and seniors who have had one course in the department and to other qualified students. (Not offered in 1956-57.)

212 (2). THE IMAGINATIVE METHOD IN PAINTING. II (3 hrs.)

Open to students who have had 211 and by permission of the instructor to other qualified students. (Not offered in 1956-57.)

DIRECTIONS FOR ELECTION

Course 100 is the basic introductory course for later work in the department and is required, except by special permission, of majoring students. (See Exemption Examination, below.)

Students planning to major in the department must elect at least one grade II course in ancient, and one in medieval art.

Students majoring in the department must elect at least 24 hours in the history of art.

A reading knowledge of French, German, or Italian, though not required, is very strongly recommended.

The attention of students is called to the interdepartmental major program in Classical Archeology.

PLACEMENT AND EXEMPTION EXAMINATIONS

Freshmen and sophomores, who secure the permission of the chairman, may qualify for entrance to grade II in art by passing an exemption examination, thus waiving the requirement of course 100.

RELATED COURSES

Related courses may be chosen from many departments: English, History, Music, Philosophy, departments of foreign language and literature.

By careful choice of related courses, a student majoring in art may plan a field of concentration emphasizing one century or period such as Ancient, Medieval, Renaissance, or Modern. Student's interested in such a plan should consult the chairman of the department as early as possible.

ASTRONOMY

Associate Professor: SARAH JEANNETTE HILL, PH.D. (Chairman)
Instructor: F. SHIRLEY JONES, PH.D.

101. ELEMENTARY ASTRONOMY (6 hrs.)

The solar system; stars, nebulae, galaxies. Open to all undergraduates. Three lecture periods and one two-hour laboratory period. For observation and

use of the telescopes approximately one-third of the laboratory time is scheduled in the evening. *Miss Hill, Mrs. Jones*

202. DIFFERENTIAL AND INTEGRAL CALCULUS (6 hrs.)

For description and prerequisite, see Mathematics 202.

203 (1). STELLAR ASTRONOMY (3 hrs.)

Continuation of 101, without laboratory. Selected topics of stellar astronomy discussed in more detail than in 101 and with emphasis on current work. Stellar populations, the interstellar material, radio astronomy, extra-galactic systems. Prerequisite, 101. *Miss Hill*

204 (2). PRACTICAL AND SPHERICAL ASTRONOMY (3 hrs.)

The determination of time, latitude and longitude. Least squares. Observation with sextant and transit instrument. Prerequisite 101 and prerequisite or corequisite Mathematics 106 or 107. *Miss Hill*

300 (1). BASIC TOPICS IN ASTRONOMY (3 hrs.)

The two-body problem, the determination of the orbits of visual and spectroscopic binaries. Prerequisites, 101 and 202. *Miss Hill*

301 (1). LIGHT (3 hrs.)

For description and prerequisite, see Physics 301.

302 (2). GALACTIC STRUCTURE (3 hrs.)

The methods used in studying the dynamics and constitution of the Milky Way. Prerequisite, 300. *Miss Hill*

307 (2). INTRODUCTION TO SPECTROSCOPY (3 hrs.)

For description and prerequisite, see Physics 307. (Not offered in 1956-57.)

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

A student majoring in astronomy should elect 18 hours in astronomy and, in addition, Mathematics 202.

Related or supplementary courses to the major should be elected in the departments of Mathematics and Physics, and should include Physics 202.

BIBLICAL HISTORY, LITERATURE, AND INTERPRETATION

Associate Professors: ERNEST RENÉ LACHEMAN, B.D., PH.D.; HERBERT MORRISON GALE, S.T.B., PH.D.; FERDINAND JOSEPH DENBEAUX, B.D., S.T.M. (Chairman); MARY LUCETTA MOWRY, B.D., PH.D.

Assistant Professor: HARRY MERWYN BUCK, JR., B.D., PH.D.

Instructors: BENJAMIN AYRAULT REIST, B.D.; CHARLES ARTHUR MANN HALL, B.D.

The requirement in Biblical history is met by course 104. Students with a knowledge of Greek may substitute course 210 for the second semester of 104.

104. STUDIES IN THE OLD AND NEW TESTAMENTS (6 hrs.)

Basic material: selected parts of the Old Testament; the Gospels of Matthew, Mark, and Luke. Aim: to acquire a knowledge of these materials, of their historical-critical analysis, of the rise of the Hebrew-Christian tradition and the relevance of this tradition to the individual and society. Required of sophomores except as indicated above. *Mr. Lacheman, Mr. Gale, Mr. Denbeaux, Miss Mowry, Mr. Buck, Mr. Reist, Mr. Hall*

203. ELEMENTARY HEBREW (6 hrs.)

The elements of Hebrew grammar, with practice in translation and the memorizing of a vocabulary. Reading of selections from the Old Testament. At the end of the course the student should be able to read simple Hebrew and to use the language in the study of the Old Testament. Prerequisite, 104 or 210. *Mr. Lacheman*

204 (1), (2). THE BEGINNINGS OF CHRISTIANITY (3 hrs.)

A course designed to enable those students who have already studied the Synoptic Gospels in 104 to continue their study of the New Testament and to see Christianity in contact with the life of the Graeco-Roman world. The rise and earliest development of the Christian religion. Emphasis upon the thought of Paul and of the Fourth Gospel. Prerequisite, 104 or 210. *Mr. Gale*

207. HISTORY OF RELIGIONS (6 hrs.)

After a brief examination of primitive and classical religions, major attention devoted to Islam, Hinduism, Buddhism and the religions of China and Japan. The history and development of institutions, cultic practices, scriptures and theologies investigated with readings in primary sources. Prerequisite, 104 or 210. *Mr. Buck*

208 (1), (2). SURVEY OF THE APPLICATION OF CHRISTIAN ETHICS TO SOCIAL PROBLEMS (3 hrs.)

A study of the social teachings of the Christian church in determinative periods of its history. An investigation from this perspective of the relevance of Christian ethics for modern social problems. Open to juniors and seniors who have taken or are taking Economics 101 or Sociology 102 or Political Science 100, or any course in medieval or modern history. *Mr. Reist*

210 (2). THE FIRST THREE GOSPELS IN GREEK (3 hrs.)

Same material as the second semester of 104, planned for those students who, in fulfilling the Biblical history requirement, prefer to study the Gospels in Greek rather than in English translation. Open to students who have completed the first semester of 104 and have completed or are taking a grade II Greek course. Students choosing this way of fulfilling the requirement in Biblical history may postpone the work until their junior year without special permission. *Mr. Buck*

213 (2). DEVELOPMENT IN JUDAISM SINCE 70 A.D. (3 hrs.)

The history of Judaism in its relation to the Graeco-Roman world, Christendom and Islam. Reading (in translation) of significant portions of Talmudic,

Midrashic, Poetic, and speculative literatures. Prerequisite, 104 or 210. (Not given in 1956-57.) *Mr. Lacheman*

216 (1). HISTORY OF CHRISTIAN THOUGHT (3 hrs.)
A survey of the interaction of the Biblical world view with classical culture and the consequent emergence of specifically Christian thought. The Church Fathers, the theology of the Creeds, Augustine, and Medieval Theology. Prerequisite, 104 or 210. *Mr. Denbeaux*

217 (2). HISTORY OF CHRISTIAN THOUGHT (3 hrs.)
The Reformation and the modern world. Studies in the religious thought of the 16th and 19th centuries, primarily. The origin and development of Protestantism, the Episcopal tradition, and the reformation of Roman Catholicism. The 19th century and the emergence of modern theology as influenced by Kierkegaard, Darwin, Marx, Dostoyevsky and Freud. Prerequisite, 104 or 210.
Mr. Denbeaux

218 (1). AMERICAN CHURCH HISTORY (3 hrs.)
A study of the development of religion in the United States from 1607 to the present. Emphasis on the European theological and ecclesiastical inheritance and its emergence in the American religious divisions and the Ecumenical Movement. Prerequisite, 104 or 210 (Not offered in 1956-57.)

301 (2). SEMINAR IN HISTORY OF RELIGIONS (3 hrs.)
Readings and discussions in the history of religions other than Judaism and Christianity. Each student will be expected to investigate some particular problem. Open to juniors and seniors by permission. *Mr. Lacheman*

305 (2). SEMINAR IN CONTEMPORARY THEOLOGY (3 hrs.)
Studies of current interpretations of Christian thought. Representative thinkers and movements including Wellhausen, Liberalism, Barth, Niebuhr and Bultmann will be examined. Open to seniors majoring in the department.
Mr. Lacheman, Mr. Reist, Mr. Gale, Mr. Denbeaux, Miss Mowry

306 (2). FURTHER STUDIES IN THE OLD TESTAMENT (3 hrs.)
More detailed work on selected portions of the Old Testament. Both content and emphasis (historical, literary, religious) determined by the interests of the students. Open to juniors and seniors who have taken or are taking a grade II course in the department. Required of those who major in the department.
Mr. Lacheman

307 (1). SEMINAR IN THE NEW TESTAMENT (3 hrs.)
The emergence of New Testament literature in the light of issues confronting the early Christian community. An intensive study of the Gospels and their impact on the growing church. Prerequisite, 204. *Miss Mowry*

310 (1). SEMINAR. STUDIES IN HISTORICAL THEOLOGY (3 hrs.)
An intensive examination of the thought of a major theologian. For the year 1956-57, Martin Luther. Prerequisites, 204 and either 216 or 217.
Mr. Denbeaux

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

The amount of work contemplated must be indicated at the time at which electives are due.

DIRECTIONS FOR ELECTION

The following courses, providing historical and theological continuity, are suggested for the major: 104, 204, 216, 217, 208 and/or 305.

In addition to 306, which is required, two seminars (307 and 310) are offered for election. Alternative elections within this program (such as 207, 213) are possible and can be discussed with the chairman when the student plans her program.*

Students interested in the original language of the New Testament are encouraged to confer with the Greek Department.

BOTANY AND BACTERIOLOGY

Professor: HARRIET BALDWIN CREIGHTON, PH.D.
Associate Professors: DELAPHINE GRACE ROSA WYCKOFF, PH.D. (Chairman); RHODA GARRISON, PH.D.
Instructor: EMANUEL DAVID RUDOLPH, PH.D.
Assistant: NANCY STEVENS, B.A.
Graduate Assistants: PHYLISS AGNES CZAPLICKI, B.A.; SHIRLEY KALMAN, B.A.

Custodian: FRANCES KNIBBS FOLSOM

101. GENERAL PLANT SCIENCE (6 hrs.)

A study of plant science presenting the principles of biology and emphasizing the importance of plants in our economic and social life. Topics considered include: growth and development of flowering plants; plant nutrition and its relation to animal and human nutrition; heredity and plant breeding; bacteria and other microorganisms; soil; forest and water resources; utilization of plant products in industry. Practice in growing plants in the greenhouses and gardens. Open to all undergraduates except those who have had Interdepartmental 103. Six periods a week, one of lecture, five of discussion and work in laboratory, greenhouse, and field.

Miss Creighton, Miss Garrison, Mr. Rudolph

103. AN INTRODUCTORY COURSE IN BIOLOGY (6 hrs.)

For description and prerequisite, see Interdepartmental 103.

201 (1). LANDSCAPE GARDENING (3 hrs.)

The study of cultivated plants with emphasis on their use in landscape gardening. Practice in applying the principles of design to gardens and to home and community plantings. Open to sophomores who have completed 101 or 103 and to juniors and seniors without prerequisite. Counts toward a major in botany and may be elected as a non-laboratory science to meet part of the distribution requirement in Group III. Six periods a week. *Miss Creighton*

202 (1). PLANT BIOLOGY (3 hrs.)

Growth and behavior of plants in relation to their natural environment. Studies in field and laboratory. Open to students who have completed 101 or

* Philosophy 211 may be counted toward the major.

103 and to juniors and seniors without prerequisite. Six periods a week, three of lecture and three of laboratory. *Miss Garrison*

204 (2). Basic Horticulture (3 hrs.)

The fundamentals of cultivation and propagation of house and garden plants and the methods of control of plant pests and diseases. Open to students who have completed 101 or 103 and to juniors and seniors without prerequisite. Six periods a week, three of lecture and discussion and three of practice in greenhouse and laboratory. *Miss Creighton, Miss Garrison*

205 (2). Microbiology (3 hrs.)

Yeasts, molds, and bacteria in relation to man's physical and economic welfare, their importance in daily living, agriculture, industry, public health, and disease control. Prerequisite, six hours in Group III. This course of three periods of lecture, discussion, and demonstration, may be taken either (a) as a non-laboratory science with special readings and papers required, or (b) as a laboratory science with two periods of laboratory work. *Mrs. Wyckoff*

207 (1) Plant Resources (3 hrs.)

A study of the agricultural and forest resources of the world with emphasis on those of the United States considering the scientific basis for the production of plants for foods, and for the raw materials of industry. A discussion of the growth of economically important plants, as it is influenced by soil, climatic, and human factors. Open to sophomores who have completed 101, or Interdepartmental 103, and to juniors and seniors without prerequisite. Counts toward a major in botany and may be elected as a non-laboratory science to meet part of the Group III distribution requirement. Three periods a week, in general two of lecture and one of demonstration. *The Teaching Staff*

302 (1). Plant Structure (3 hrs.)

The study of cells, tissues, and organs, their functions and their role in the development of form in the organism. Practice in the preparation of plant tissues for microscopic study. Open to students who have completed twelve hours in botany. Five periods a week, two of lecture and discussion and three of laboratory. *Miss Garrison*

303 (2). Genetics (3 hrs.)

The study of inheritance, considering its cellular basis, the methods by which knowledge of heredity is obtained, and the application of this knowledge to biological problems. Laboratory experimentation with plants. Open to juniors and seniors who have completed six hours in botany and six additional hours in botany or zoology. Five periods a week, two of lecture and discussion and three of laboratory. *Miss Creighton*

304 (2). Plant Diseases (3 hrs.)

The study of pathogenic fungi, their structure, their physiological processes, and their effects on ornamental and economically important plants. Practice in the cultivation of pathogenic fungi and modern methods of combating plant diseases. Prerequisite, 12 hours in botany. Six periods a week, two of lecture, and four of laboratory, field, or greenhouse. (Not given in 1956-57.)

Mr. Rudolph

306. PHYSIOLOGY (6 hrs.)

First semester: fundamental processes of plant cells; photosynthesis, nutrition, respiration. Second semester: physiological processes in growth and development of green plants; plant hormones, photoperiodism. Open to juniors and seniors who have completed six hours of grade II in botany and who have completed or are taking a year of either chemistry or physics. Students who have completed 101 or 103 may take this course and the prerequisite of grade II at the same time. Six periods a week, two of lecture and four of discussion and laboratory. By permission, the first semester may be elected separately. *Mr. Rudolph*

308. GENERAL BACTERIOLOGY (6 hrs.)

Structure and physiological processes of bacteria, their responses to the environment, and their relation to soil fertility, industrial processes, water and milk supplies, food preservation, disease, and immunity. Practice in bacteriological methods and techniques. Open to students who have completed one year of chemistry or physical science and either one year of botany, zoology, or biology, or a second year of chemistry. Six periods a week, in general two of lecture and four of laboratory including one field trip. *Mrs. Wycoff*

312 (1). ADVANCED BACTERIOLOGY (3 hrs.)

Systematic study of bacteria, including serological relationships and roles in disease and immunity. Consideration of recent developments in bacteriology. Practice in bacteriological and serological techniques and procedures. Prerequisite, 308. Six periods a week, two of lecture and four of laboratory.
Mrs. Wyckoff

322. SEMINAR (3 to 6 hrs.)

A field of botany or bacteriology is scrutinized from standpoints of modern achievement, methods of investigation, and the theories and reasoning involved in reaching present-day conclusions. Open to graduate students and by permission to qualified seniors. (For 1956-57 [2]: Virology, *Mrs. Wyckoff*)
The Teaching Staff

350. RESEARCH OR INDEPENDENT STUDY (3 to 6 hrs.)

The study will be under the direction of an instructor in the student's field of interest. The nature of the work will depend upon whether the student is an undergraduate or a graduate student, and upon the field. Open to seniors and graduate students and, by permission, to juniors.

DIRECTIONS FOR ELECTION

A major is based on course 101 or Interdepartmental 103. The combination of grade II or grade III courses elected for the major will depend upon the student's particular objectives—general plant science, horticulture, and landscape gardening, or bacteriology and medical laboratory work.

Courses in chemistry, geology, geography, and zoology are suggested for related work. Art 309 may be considered a related course in certain programs.

The department will admit properly qualified freshmen and sophomores to 202, 204, and 205 without examination but by special permission after consultation with the chairman of the department.

SCHOLARSHIP

In the Marine Biological Laboratory at Woods Hole (or in a biological field station approved by the student's major department), a scholarship is open to undergraduates. Students should consult the Chairman of the Department before February 15.

CHEMISTRY

Professor: HELEN THAYER JONES, PH.D.
Associate Professors: PHILIPPA GARTH GILCHRIST,[1] PH.D.; MARGARET KINGMAN SEIKEL, PH.D. (Chairman)
Assistant Professors: JEAN VECHTE CRAWFORD, PH.D.; ELEANOR RUDD WEBSTER, PH.D.
Instructors: ELIZABETH REIMAN SIMONS, PH.D.; BRITA HÄSSEL IMMERGUT, M.A.
Graduate Assistant: RUTH ELIZABETH LEGLER, B.A.

Lecturer: ROSA KUBIN, PH.D.

Custodian: EMILY MAY HOPKINS, M.A.
Assistant Custodian: ANNA POWELL WALKER

101. ELEMENTARY CHEMISTRY (6 hrs.)

The fundamental laws and theories of chemistry, in connection with the study of the non-metals and a brief survey of the metals. Open to students who do not present chemistry for admission. Three periods of lecture and discussion and one three-period laboratory appointment. *Miss Webster, Mrs. Immergut*

103. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS (6 hrs.)

A survey of fundamental chemical principles based on preparatory work in chemistry. General theories, laws, and problems considered during the first semester and applied in the second semester to the study of inorganic semimicro qualitative analysis. Prerequisite, the admission requirement. Three periods of lecture and discussion with one three-period laboratory appointment.
Miss Jones, Miss Crawford, Mrs. Immergut

106. AN INTRODUCTORY COURSE IN PHYSICAL SCIENCE (6 hrs.)

For description and prerequisite, see Interdepartmental 106. This course will, by special arrangement, serve as prerequisite for grade II courses in chemistry.

200 (1). QUANTITATIVE ANALYSIS. (3 hrs.)

Fundamental methods of gravimetric and volumetric analysis with emphasis on the theory, laboratory technique and calculations of each method. Prerequisite, 101 or, by permission, 106. Two periods of lecture and two three-period laboratory appointments. *Miss Jones, Mrs. Immergut*

201 (2). QUALITATIVE ANALYSIS (3 hrs.)

Principles which govern the reactions of electrolytes in solution, as illustrated by the chemistry of inorganic semimicro qualitative analysis. Prerequisite, 200. Three periods of lecture and discussion with one three-period laboratory appointment. *Mrs. Kubin*

202 (1). QUANTITATIVE ANALYSIS (3 hrs.)

Subject matter similar to that in 200 but presented from a more advanced

[1] Absent on leave.

point of view. Prerequisite, 103. Two periods of lecture and two three-period laboratory appointments. *Mrs. Simons*

207 (2). QUANTITATIVE ANALYSIS (3 hrs.)

Methods of analysis of complex mixtures correlating the theory and techniques of analytical chemistry. Instrumental analysis included. Prerequisite, 202 or, by permission, 200. Two periods of lecture and six periods of laboratory.
Mrs. Simons, Mrs. Immergut

301. ORGANIC CHEMISTRY (6 hrs.)

An introduction to the compounds of carbon, consisting of a study of the characteristic properties of the simple classes and of the current theories proposed to correlate these properties. Preparation and purification of organic compounds. Prerequisite, 103 or 200 or, by permission, 101 or 106. Three periods of lecture and discussion and one three-period laboratory appointment.
Miss Seikel

302 (2). IDENTIFICATION OF ORGANIC COMPOUNDS (3 hrs.)

The systematic qualitative analysis of organic substances. Since each student identifies individual compounds and mixtures, independent work is encouraged. The course offers a good introduction to research methods and attitudes. Open to juniors and seniors who have completed any grade II course and have completed or are taking 301. Two periods of lecture and discussion, six periods of laboratory. *Miss Seikel*

303 (1). *ADVANCED QUANTITATIVE ANALYSIS (3 hrs.)

The theory and techniques of some modern methods of quantitative analysis, including an introduction to organic microanalysis and to instrumental analysis. Prerequisite, any grade II course and 301. Two periods of lecture and two three-period laboratory appointments. (Not given in 1956-57.)
Miss Seikel

305 (1). PHYSICAL CHEMISTRY (3 hrs.)

The laws and theories of matter in its various states of aggregation, including the colloid state and solutions; chemical thermodynamics and thermochemistry; the use of these principles for obtaining chemical information. Open to juniors and seniors who have completed any grade II course, Physics 101, 104, or 105, and Mathematics 202, and have had or are taking Chemistry 301. By permission students who offer only Mathematics 106 or 107 may be admitted to the course. Conferences with the instructor for the necessary supplementary training in mathematics will be required of these students. Three periods of lecture and discussion and one three-period laboratory appointment.
Mrs. Simons, Mrs. Immergut

306 (2). PHYSICAL CHEMISTRY (3 hrs.)

A continuation of 305, including especially chemical equilibrium, reaction velocity, electrochemistry, and theories of atomic and molecular structure. Open to juniors and seniors who have completed 305. Three periods of lecture and discussion and one three-period laboratory appointment.
Mrs. Simons, Mrs. Immergut

* Offered in alternate years.

307 (2). ADVANCED INORGANIC CHEMISTRY (3 hrs.)

A comprehensive survey of the different classes of inorganic substances and the modern theoretical interpretation of their interactions. Open to juniors and seniors who have completed any grade II course and who have completed or are taking 301. Three periods of lecture and discussion. *Miss Jones*

308 (1). BIOCHEMISTRY (3 hrs.)

Chemistry of representative substances occurring in living organisms. Nutritional values, including energy content, of food materials are considered. Open to juniors and seniors who have completed any grade II course and 301. Three periods of lecture and discussion and one three-period laboratory appointment. *Mrs. Kubin*

309 (2). BIOCHEMISTRY (3 hrs.)

Chemistry of the more important organs and tissues of the body and of the changes which occur in the processes of digestion and metabolism. Analysis of body tissues and fluids. Open to juniors and seniors who have completed 308 and who have completed or are taking Zoology 101 or 308. Well qualified students who have completed any grade II course and 301 and have completed or are taking Zoology 308 may, by permission, be admitted without the prerequisite of Chemistry 308. Three periods of lecture and discussion and one three-period laboratory appointment. (Not given in 1956-57.) *Mrs. Kubin*

311 (1). *ORGANIC PREPARATIONS (3 hrs.)

A study of modern macro and micro techniques for preparing and isolating organic compounds. Prerequisite, any grade II course and 301. Two periods of lecture and two three-period laboratory appointments. (Not offered in 1956-57.)

312 (1). USE OF THE LITERATURE OF CHEMISTRY (1 hr.)

A course designed to acquaint the student with the published sources of chemical knowledge in order that she may use them more effectively in advanced work. Experience is gained by the solution of individual library problems. Open to majors who have completed or are taking any grade II course and 301. One period of lecture and discussion. *Miss Seikel*

313 (1). ADVANCED ORGANIC CHEMISTRY (3 hrs.)

Study of an advanced topic in organic chemistry such as stereochemistry, heterocyclic chemistry, reaction mechanisms or the chemistry of natural products. Ordinarily the same subject will not be discussed in two successive years. Open to students who have completed any grade II course and 301. Three periods of lecture and discussion. (Not given in 1956-57.)

320. SEMINAR (2 hrs.)

Recent developments in chemistry. Inorganic, organic, physical or biochemistry studied in successive semesters. Open to graduate students. Alternate weeks for two hours in the evening. May be begun either semester.

350. RESEARCH OR INDEPENDENT STUDY (3 to 6 hrs.)

Individual work either in advanced theory or a laboratory problem, under

* Offered in alternate years.

the direction of one or more members of the department. Open by permission to students who have completed at least 18 hours in chemistry.

DIRECTIONS FOR ELECTION

For students planning a major in chemistry one of the following sequences of courses is essential: Interdepartmental 106 or Chemistry 101, 200, 201, and 301; or 103, 202, and 301. Any other courses in the department may be added to these to complete the 24-hour major. All students majoring in chemistry are required to complete at least one year of college physics and are strongly advised to complete one year of college mathematics and to acquire a reading knowledge of French and German.

For admission to most graduate schools Chemistry 305 and 306 with the prerequisite of Mathematics 202 are required.

Premedical students are referred to the requirements as given on page 30.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists. Students wishing to meet the standard of an accredited chemist as defined by this society should consult the Chemistry Department.

PLACEMENT AND EXEMPTION EXAMINATIONS

Unusually well-qualified students may apply for an examination covering the year's work in Chemistry 101. (A college textbook of general chemistry should be used in preparation for this examination.) The satisfactory completion of this examination will be accepted as the equivalent of Chemistry 101 in the work for distribution or as a prerequisite for advanced work in the department.

CLASSICAL ARCHEOLOGY

Director: DIETHER THIMME,[2] *Associate Professor of Art*

An interdepartmental major in Classical Archeology gives opportunity for a study of classical civilization through its art, literature, and history, with emphasis on either the Greek or Roman period.

The field of concentration (42 hours) should normally include ancient history (6 hours); art (12 to 15 hours); Greek or Latin language and literature (18 to 21 hours); independent study of an archeological topic correlating work in art and literature (3 to 6 hours). In addition to the work elected in either Greek or Latin, the candidate must give evidence of a working knowledge of the second language.

ECONOMICS

Professors: LAWRENCE SMITH, M.A.; LUCY WINSOR KILLOUGH, PH.D.
Associate Professor: RICHARD VERNON CLEMENCE, PH.D. (Chairman).
Assistant Professors: HILDA KAHNE, PH.D.; CAROLYN SHAW BELL, PH.D.
Instructor: MARY JANE LATSIS, M.P.A.

101. INTRODUCTORY ECONOMICS (6 hrs.)

A course which assists the student in understanding contemporary life through a study of the economic foundations of our society. The national income and its relationship to prosperity and depression. Economic principles and the institutions within which they operate. The American economic system compared with other existing or theoretical systems of economic organization. Open to all

[2] Absent on leave for the first semester.

undergraduates. *Mr. Smith, Mrs. Killough, Mr. Clemence, Mrs. Kahne, Mrs. Bell, Miss Latsis*

201 (1). ECONOMIC ANALYSIS (3 hrs.)

The basic techniques of modern analysis applicable to problems of income, output, employment, and prices. Fundamentals of economic theory and method. Prerequisite, 101. *Mr. Clemence*

202 (2). THE STRUCTURE OF AMERICAN INDUSTRY (3 hrs.)

The organization and development of representative industries in agricultural and industrial production and distribution. Resources and production, markets and prices. Economic aspects of public policy in the regulation of business. Prerequisite, 101. *Miss Latsis*

204 (2). ECONOMIC HISTORY OF THE UNITED STATES (3 hrs.)

Economic change in America: the transformation of an agricultural economy; the course of the Industrial Revolution; role of public and private institutions in the process of economic change. Open to sophomores, juniors, and seniors who have completed or are taking 101. *Miss Latsis*

210. FINANCIAL ORGANIZATION OF SOCIETY (6 hrs.)

Money, credit, general price levels, and business cycles. Emphasis on monetary systems and current monetary problems. The work of commercial banks and the functioning of the Federal Reserve system. Business cycles dealt with historically and theoretically, and methods of stabilization analyzed. Prerequisite, 101. *Mr. Smith*

211 (1), (2). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS (3 hrs.)

Statistical methods as used in the social sciences. Organization and presentation of statistical data. Frequency distributions and simple correlation. Introduction to time series analysis and index numbers. Open to sophomores, juniors, and seniors who have completed or are taking 101. Problems and exercises will be required. *Mrs. Bell, Mrs. Kahne*

212 (2). ECONOMICS OF ACCOUNTING (3 hrs.)

A survey of the fundamental principles of accounting; problems in accounting technique. Emphasis on the relation of accounting theory and practice to economic theory and contemporary economic problems. The aim is to enable the student to interpret and utilize accounting data in other fields of economics and in analyzing public policy. Prerequisite, 101. *Mrs. Bell*

214 (1). POPULATION. (3 hrs.)

For description and prerequisite, see Sociology 214.

301 (1). COMPARATIVE ECONOMIC SYSTEMS (3 hrs.)

Economic processes and goals of alternative types of economic systems. Study of functioning economies, illustrative of capitalism, socialism, communism, fascism. Open to juniors and seniors who have completed 101 and have completed or are taking a grade II course in economics, history, political science, or sociology. *Mrs. Kahne*

302 (1). THE DEVELOPMENT OF MODERN ECONOMIC INSTITUTIONS (3 hrs.)

Economic growth in England and on the continent; determinants of the

rate of growth; comparison of national policies and institutions; the agricultural background of the industrial process; the timing of the Industrial Revolution. Some attention to theories of historical economic growth. Open to juniors and seniors who have completed 101 and six additional hours in the department. *Miss Latsis*

306 (1). CORPORATIONS AND COMBINATIONS (3 hrs.)

Corporate structure and operation. The market for corporate securities, including investment banking, other investment institutions, the stock exchange, government regulation of security issues and exchanges. Problems arising from the development of great corporations, through both concentration and combinations; anti-trust policy in the United States. Open to juniors and seniors who have completed 101 and have completed or are taking a grade II course in economics, history, political science, or sociology. *Mr. Smith*

307 (1). THE ECONOMICS OF CONSUMPTION (3 hrs.)

Analysis of wants and choices of consumers; income distribution and consumption patterns; marketing in its relation to consumers; legislative influences; the impact of consumption decisions on the economy. Open to juniors and seniors who have completed 101 and have completed or are taking six additional hours in economics, psychology, or sociology. *Mrs. Bell*

308 (2). LABOR ECONOMICS (3 hrs.)

Activities and policies relating to American labor. Growth and composition of the labor force. Labor unions and collective bargaining. Public policy; social legislation. Open to juniors and seniors who have completed 101 and have completed or are taking a grade II course in economics, sociology, or political science. *Mrs. Kalne*

310 (1). PUBLIC FINANCE (3 hrs.)

Principles and problems of government revenues, expenditures, and debts. Fiscal policy and the national income; the shifting and incidence of taxation. Special emphasis on the tax system of the United States. Open to juniors and seniors who have completed 101 and have completed or are taking one of the following: 203, 204, 209, 210, 212, Political Science 201, 203, 304. *Mrs. Killough*

312 (2).* ECONOMIC STATISTICS (3 hrs.)

Further development of techniques studied in 211. Investigation of an economic problem susceptible of statistical analysis. Design of the project, collection and tabulation of data, analysis and report of results. Open to juniors and seniors who have completed 211 or, by permission of the chairman of the department, to students who have completed Mathematics 205, and have completed or are taking any other course of grade II in economics. *Mrs. Bell*

313 (1). SEMINAR. SELECTED TOPICS IN ECONOMIC MOVEMENTS AND THEORIES (3 hrs.)

Subject for 1956-57: location of industry. Locational determinants of individual industries; analysis of specific locational factors and their relation to economic development. Open to juniors and seniors approved by the chairman of the department, who have completed eighteen hours in economics. Two

* Offered in alternate years.

consecutive hours each week with a third at the pleasure of the instructor. *Mrs. Killough*

314 (2). INTERNATIONAL ECONOMIC RELATIONS (3 hrs.)

Industrial foundations of international trade. Theories and institutions of international trade and investment. The international economic position of countries in different stages of economic growth. Open to juniors and seniors who have completed 101 and have completed or are taking 204, 209, or 210, or who are majoring in geography, history or political science and have completed or are taking a grade II course in their major subject. *Mrs. Killough*

315 (2).* HISTORY OF ECONOMIC THOUGHT (3 hrs.)

The development of economic thought from ancient to modern times. A brief survey of early economic ideas, followed by a more detailed examination of the history of economics since 1776. The systems of the leading economists in the light of their own times and of the present day. Open to juniors and seniors who have completed 101 and who have completed or are taking six additional hours in economics. (Not offered in 1956-57.) *Mr. Clemence*

316 (2).* MODERN ECONOMIC THOUGHT (3 hrs.)

Recent developments in economic thought, and their significance for theory and policy. Reading and discussion of contemporary economic literature. Open to juniors and seniors who have completed 101 and who have completed or are taking six additional hours in economics. *Mr. Clemence*

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

To a limited number of advanced students wishing to do individual work outside of regular courses the department is prepared to offer a course of directed reading, to be tested by examination or final paper. Students desiring to register for such a course must secure the approval of the chairman of the department in advance of the time at which electives are due.

DIRECTIONS FOR ELECTION

Students planning a major in economics should consult a member of the department concerning sequences of courses. A minimum major of 30 hours is recommended.

Students wishing to emphasize international relations in their field of concentration should consult the chairman of the department as early as possible.

PLACEMENT AND EXEMPTION EXAMINATIONS

The department is prepared to offer an examination for advanced standing covering the field of introductory economics.

EDUCATION

Assistant Professor: MARY EWEN ULICH, ED.D. (Chairman)
Instructor: CATHERINE SEARS HAMILTON, PH.D.
Lecturers: ESTHER PASTENE EDWARDS,[5] M.A.; LOUISE CATHERINE HEUSER KELLER, ED.M.; MARGUERITE CAPEN HEARSEY,[5] PH.D.

101 (1), (2). INTRODUCTION TO CLASSICAL PHILOSOPHY (3 hrs.)

For description and prerequisite, see Philosophy 101.

* Offered in alternate years.
[5] Appointed for the second semester only.

102. INTRODUCTION TO PSYCHOLOGY (6 hrs.)

For description and prerequisite, see Psychology 102.

200 (1), (2). PHILOSOPHY OF EDUCATION (3 hrs.)

This course will show how philosophical thought and analysis can help to clarify the major problems of education. Discussion of the aims of schooling, and the relation of knowledge to individual and social values. Open to sophomores who have had or are taking a course in philosophy, psychology, or sociology, and to juniors and seniors without prerequisite.

Mrs. Ulich, Mrs. Hamilton

201 (2). HISTORY OF EDUCATIONAL IDEAS (3 hrs.)

Study of the interrelationship between educational ideas and ideals and their historical setting, their influence on the educational process, and their contribution to the general development of culture. Prerequisite, 200.

Mrs. Ulich

202 (2). THE ELEMENTARY SCHOOL (3 hrs.)

The organization of the elementary school, its curriculum, the teacher's work, and current educational policies. Emphasis placed on the development and characteristics of elementary school children. Observation in grade school classrooms. Prerequisite, 200. *Miss Edwards*

206 (1), (2). CONFLICTS IN MODERN ETHICAL THOUGHT (3 hrs.)

For description and prerequisite, see Philosophy 206.

207 (2). CHILD PSYCHOLOGY (3 hrs.)

For description and prerequisite, see Psychology 207.

219 (1). PSYCHOLOGY OF LEARNING (3 hrs.)

For description and prerequisite, see Psychology 219.

300 (1). SECONDARY EDUCATION (3 hrs.)

The aims, organization, and administration of secondary schools considered in relation to their social, political, and economic environments. Criteria for evaluating curricula and classroom problems included. Observation in schools required. Prerequisite 200 and a course in psychology. *Mrs. Ulich*

301 (2). THE TEACHING OF LATIN IN THE SECONDARY SCHOOL (3 hrs.)

The educational value of Latin studies and their place in the secondary school. Contemporary practice in Latin teaching. Review of authors read in high school with study of the historical and social background of their times. Evaluation of texts. Observation of Latin classes in neighboring schools. Open to seniors who have taken Education 300 and at least 18 hours in the department of Latin; or by permission. This course may be counted toward a 30-hour major in Latin. (Not given in 1956-57) *Miss Robathan (Professor of Latin)*

303 (2). THE TEACHING OF FRENCH IN THE ELEMENTARY AND THE SECONDARY SCHOOL (3 hrs.)

The principles underlying the teaching of French at different levels, with special reference to the learning capacities of successive age groups. The integration of modern foreign languages with other studies in the curriculum.

The equipment of the teacher and her department. The organization of courses in French, including the choice and use of texts and other materials. Observation of French classes in neighboring schools. Open to seniors who have taken 300, and by permission to other qualified students. It is recommended that the student's program include at least 18 hours of courses in French, six of which are grade III. This course may be counted toward a major in French.

Miss Dennis (Professor of French)

305. THE EDUCATION OF THE YOUNG CHILD (6 hrs.)

A survey of the theory and practice of early childhood education, including the study of young children as members of society who are responding to educational influences. Four hours a week of observation and participation at the Page Memorial School. Open to seniors, and to juniors by permission of the department, who have taken 200 and a course in psychology. *Mrs. Keller*

307 (1). THE DEVELOPMENT OF PERSONALITY (3 hrs.)

For description and prerequisite, see Psychology 307.

308 (2). THE TEACHING OF SOCIAL STUDIES IN THE SECONDARY SCHOOL (3 hrs.)

Methods of encouraging high school students in an understanding of the society in which they are living and of its historical development. The relations between the kinds of knowledge developed in the separate social studies and the methods whereby a preliminary understanding of these relations may be encouraged in high school students. The particular problems that arise in teaching the social study in which students have specialized. Visits to neighboring schools. Open to seniors majoring in history, economics, political science, sociology, or geography, who have taken Education 300. (Not offered in 1956-57.)

309. (2). THE TEACHING OF ENGLISH IN THE SECONDARY SCHOOL (3 hrs.)

A study of the art of teaching English literature for understanding and enjoyment, and of the ways to teach clear and effective writing. Methods taught through the use of English prose and poetry selected from various periods. The place of oral work in the classroom. Emphasis on the contribution that the appreciation of literature can make in the personal development of young people. Open to seniors who have taken at least 18 hours in the department of English, and Education 300. *Miss Hearsey*

310 (2). SEMINAR (3 hrs.)

An intensive and critical examination of the educational theories of several selected writers. Special attention given to the relevance of their ideas to the problems of American education. Open to seniors approved by the department. *Mrs. Ulich*

DIRECTIONS FOR ELECTION

Students who intend to teach should (in their sophomore year if possible) consult the department concerning the various city and state requirements for the certificate to teach.

Although the College does not offer a major in education, students may take up to eighteen hours, which is the required number in many states. They may elect also the courses listed above in philosophy and psychology which are important in the preparation of teachers. There are ample opportunities for observation in neighboring school systems. For information about summer and graduate programs in which Wellesley cooperates, see page 30.

English 312 is pertinent for those planning to teach English. Courses in history, geography, political science, and sociology are of value for those planning to teach social studies. Those interested in recreational work with children should consider Physical Education 200.

Additional courses which may be helpful in preparation for teaching are: History 221, 222, 310; Psychology 225, 313, 314, 317; Sociology 104, 202, 222; Speech 101, 102, 202.

ANNE L. PAGE MEMORIAL SCHOOL

Director: LOUISE CATHERINE HEUSER KELLER, ED.M.

The Anne L. Page Memorial School for children from three to six years of age is the college laboratory school and as such it is an integral part of the educational program of the College. It is a center for child study, observation, and participation for students from all departments of the College, and it is especially helpful to students working in the departments of Education and of Psychology.

ENGLISH

Professors: KATHARINE CANBY BALDERSTON, PH.D.; ELLA KEATS WHITING, PH.D.; GRACE ETHEL HAWK,[1] B.LITT.OXON.; WALTER EDWARDS HOUGHTON, PH.D.; CHARLES WILLIAM KERBY-MILLER, PH.D.; MARY RUTH MICHAEL, PH.D.

Visiting Professor: MADELEINE DORAN,[5] PH.D.

Associate Professors: MARY ELEANOR PRENTISS,[2] M.A.; VIRGINIA FLEMING PRETTYMAN, PH.D.; HELEN STORM CORSA, PH.D.; RICHARD PURDY WILBUR,[2] M.A.; KATHERINE LEVER, PH.D.

Assistant Professors: PATRICK FRANCIS QUINN, PH.D. (Chairman); BEVERLY JOSEPH LAYMAN, PH.D.; DAVID RUSSELL FERRY, PH.D.; ROBERT ERWIN GARIS, PH.D.

Instructors: JAMES KERANS, PH.D.; PHILIP BOOTH, M.A.; ALICE EVANGELINE JOHNSON, M.A.; GRETCHEN PAULUS, M.A.; ANNE ELIZABETH DAVIDSON, M.A.; RUTH MARGUERITE VANDE KIEFT, M.A.; DORIS KIRK HOLMES, M.A.

Lecturers: SYLVIA LEAH BERKMAN,[4] PH.D.; ROBERTA TEALE SWARTZ CHALMERS, B.LITT.OXON.

Visiting Lecturer: RICHARD C. HARRIER, PH.D.

100. LANGUAGE, LITERATURE, AND THE INDIVIDUAL (6 hrs.)

The reading of non-fiction, novels, short stories, poetry, and drama chosen from the best English and American literature; writing directed towards the evaluation of personal experience, of the literature studied, and of non-literary source materials; the exploration of the possibilities of the English language. Training in the use of the library and documentation. Fortnightly themes or their equivalent. Regularly scheduled individual conferences. Required of freshmen. This course may not count towards a major in English. *The Staff*

102. THE INTERPRETATION OF LITERATURE (6 hrs.)

The close critical analysis and evaluation of a few poems, short stories, novels and plays drawn from the range of English and American literature. The texts considered as much as possible in and of themselves, with the inten-

[1] Absent on leave.
[2] Absent on leave for the first semester.
[5] Appointed for the second semester only.

tion of enriching and sharpening the student's response to individual literary works. Open to all undergraduates. *Mr. Kerans, Miss Prettyman, Mr. Garis, Mr. Ferry, Miss Vande Kieft, Mr. Harrier*

104. SURVEY OF ENGLISH LITERATURE (6 hrs.)

The analysis, through lectures, reading, and discussion, of representative English authors and works, chosen primarily to illustrate: the permanent spirit and developing characteristics of a people; the moods of successive periods; shifts and varied emphases in taste and ideas. Open to all undergraduates.
Mr. Layman, Miss Lever, Miss Paulus, Miss Davidson

105 (2). EXPOSITORY WRITING (3 hrs.)

The writing of various types of exposition, based in part on the analysis of selected readings. A practical course designed to assist those students who need special training in the organization and effective presentation of ideas. Open to sophomores, juniors, and seniors. (Not given in 1956-57.)

107. INTERPRETATIONS OF MAN IN WESTERN LITERATURE (6 hrs.)

For description and prerequisite, see Interdepartmental 107. See also footnote on page 58.

108 (2). BALLADS AND FOLK SONGS (3 hrs.)

English and American traditional songs today. Their poetry, music, folklore, legend, connection with other folk expressions (dance, tale, play, etc.). Their reflection of earlier societies and their influence on present culture. Conditions of survival, as observed especially in the southern Appalachians. Open to all undergraduates. (Not offered in 1956-57.)

Courses 200-203 inclusive are planned as *workshops in writing*, with informal group meetings, sometimes fewer than three times a week, and frequent individual conferences. While the emphasis is on constant practice in writing, each course requires a critical reading of pertinent examples of the type of writing being studied. Courses 301-305 inclusive continue the same plan at an advanced level.

200 (1), (2). SHORT NARRATIVE AND DRAMA (3 hrs.)

Particularly the short story and the one-act play. Open to students who have completed the requirement in English composition. Not open to students majoring in English who have completed three semesters of grade II work in writing or who are taking another writing course.
Miss Lever, Mr. Booth, Miss Berkman, Miss Johnson

201 (1), (2). THE ESSAY (3 hrs.)

Personal, critical, and biographical. Prerequisite, same as for 200.
Miss Prentiss, Mrs. Chalmers

202 (1). POETRY (3 hrs.)

The writing of short lyrics and study of the art and craft of poetry. Prerequisite, same as for 200. *Mr. Booth*

203 (1), (2). EXPOSITORY AND JOURNALISTIC WRITING (3 hrs.)

The writing of reviews, reports, news stories, and magazine articles. Prerequisite, same as for 200. *Miss Paulus*

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210 (1), (2). MODERN POETRY (3 hrs.)

English and American poetry and poets, recent and contemporary. Open to sophomores who have taken six hours of literature in the department, and to juniors and seniors without prerequisite. *Mr. Wilbur, Mr. Ferry*

212 (2). MODERN ENGLISH DRAMA (3 hrs.)

The history of the drama of England and America from 1879 to our own day, with study of the influence of Ibsen and other continental dramatists. Prerequisite, same as for 210. *Mr. Garis, Mr. Kerans*

214 (2). LITERATURE OF THE ENGLISH RENAISSANCE EXCLUSIVE OF DRAMA (3 hrs.)

The sonnet, the lyric, and narrative poetry; fiction, pamphlets, and literary criticism. Emphasis upon Sidney and Spenser as representing the spirit of the age. Prerequisite, same as for 210. (Not given in 1956-57.) *Mr. Layman*

215 (2). INTRODUCTION TO SHAKESPEARE (3 hrs.)

The study of a number of representative plays, with emphasis on their dramatic and poetic aspects. Open to juniors and seniors only. Primarily for nonmajors. *Miss Doran*

217 (1), (2). MILTON (3 hrs.)

A critical study of Milton as a master of lyric, epic, and dramatic poetry, and as a writer of notable prose. The character and genius of the poet, as influenced by the political and religious conflict of the time. Prerequisite, same as for 210. *Miss Lever, Miss Davidson*

220 (1), (2). CHAUCER (3 hrs.)

A study of Chaucer's poetry, tracing the development of his art and showing the relation of his work to the social and literary background of his time. Prerequisite, same as for 210. *Miss Corsa*

221 (1). HISTORY OF ENGLISH DRAMA TO 1642 (3 hrs.)

Medieval popular religious drama, 16th century types of comedy, the development of Elizabethan tragedy, 17th century satiric plays, tragedy and tragicomedy. Emphasis on such major figures as Marlowe, Jonson, and Webster. Prerequisite, same as for 210. *Mr. Layman*

223 (1). AMERICAN LITERATURE (3 hrs.)

The beginnings of American literature and the social conditions out of which it grew, followed by a consideration of American writers through Melville. Emphasis upon major figures. Prerequisite, same as for 210.

Miss Michael, Mr. Quinn

224 (2). AMERICAN LITERATURE (3 hrs.)

American writers from Whitman to the present time. Emphasis upon major figures. Open to students who have taken 223. *Miss Michael, Mr. Quinn*

225. THE DEVELOPMENT OF THE ENGLISH NOVEL (6 hrs.)

The growth of the novel from its beginning in the 18th century until recent times. Concentration on a limited number of major masters from Defoe to D. H. Lawrence, but with attention to other significant figures and to historical developments. Prerequisite, same as for 210. Not open to those who have taken 218, 219, or 226. *Mr. Kerby-Miller, Mr. Garis, Miss Johnson*

226 (1), (2). THE ART OF THE NOVEL (3 hrs.)

Major works of fiction by a selected group of writers, principally drawn from the modern period. Both intensive and extensive reading. Prerequisite, same as for 210. Not open to those who have taken 218, 219, or 225.
Miss Corsa, Mr. Wilbur, Mr. Layman, Mr. Ferry, Mr. Booth

230 (1). EARLY ROMANTIC POETS (3 hrs.)

Intensive study of the poems and critical writings of Blake, Wordsworth, and Coleridge. Prerequisite, same as for 210.
Miss Prettyman

231 (2). LATER ROMANTIC POETS (3 hrs.)

The poetry and criticism of Byron, Shelley, and Keats. Prerequisite, same as for 210. *Mr. Houghton*

Courses 301-305 inclusive are planned as *workshops in writing,* continuing the training of courses 200-203.

301 (2). THE SHORT STORY (3 hrs.)

Writing of short stories of different types, together with practice in critical evaluation of student work. Open by permission to juniors and seniors who have taken one grade II workshop. *Miss Prentiss, Mrs. Chalmers*

304 (1). SEMINAR IN WRITING (3 hrs.)

Techniques of dramatic and narrative writing, with emphasis upon the writing of a long, sustained narrative. Open to seniors who have completed 301. By department permission this course may be followed by 350 work in the second semester. *Miss Berkman*

305 (2). JOURNALISTIC WRITING (3 hrs.)

The magazine article and other types of expository and journalistic writing. Stress on original and effective methods of presentation and the development of a finished expository style. Open to juniors and seniors who have completed one grade II workshop. *Mr. Kerby-Miller*

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307 (2). CRITICISM (3 hrs.)

Study of the basic principles of the great critics with their practical application to specific literary works. Special attention to modern trends in criticism. Lectures, discussions, and occasional papers. Open to juniors and seniors who have completed or are taking six hours of grade II in English and, by permission, to other specially qualified students. *Miss Prettyman*

309. SHAKESPEARE (6 hrs.)

Shakespeare's development as dramatist and poet, studied through twenty plays. Some consideration of his debt to his contemporaries, his use of Elizabethan ideas, his theater, representative source studies, Shakespearean criticism, theories of tragedy. Open to juniors and seniors who have completed or are taking six hours of grade II literature in English and by permission to other specially qualified students. Not open to students who have taken 215. *Miss Balderston, Miss Michael*

310 (1). POPE AND SWIFT (3 hrs.)

Pope and Swift considered as representative writers of neo-classicism and rationalism, and as masters of satire. Prerequisite, same as for 309. *Mr. Kerby-Miller*

311 (2). THE AGE OF JOHNSON (3 hrs.)

The second half of the 18th century studied as a period of transition between the neo-classic and romantic eras. Dr. Johnson will be the center of the course, and the periphery will include Goldsmith, Boswell, Burke, Gray, Cowper, Blake, and Burns. Prerequisite, same as for 309. *Mr. Kerby-Miller*

312 (2). THE ENGLISH LANGUAGE (3 hrs.)

The origin and growth of the English language, studied as a basis for understanding its structure and the nature and use of words in common speech today and in contemporary literature. Prerequisite, same as for 309. (Not given in 1956-57.) *Miss Lever*

313 (1). THE AGE OF DRYDEN (3 hrs.)

The literature of the Restoration: drama, lyrics, and satire, with special emphasis on John Dryden. The development of the modern outlook as seen in literature and learning. The growth of journalism and middle class literature in the hands of Defoe, Addison, and Steele. Prerequisite, same as for 309. *Mr. Kerby-Miller*

314 (1). VICTORIAN PROSE (3 hrs.)

The prose of Macaulay, Huxley, Carlyle, Mill, and Newman, studied with special reference to Victorian conceptions of politics, science, religion, and aesthestics. Prerequisite, same as for 309. *Mr. Houghton*

315 (2). VICTORIAN POETRY AND CRITICISM (3 hrs.)

The poetry of Tennyson, Browning, Arnold, Morris, and Hopkins. Prerequisite, 314, or 230 and three other hours of grade II literature. Open to other students by permission. *Mr. Houghton*

316 (2). SEVENTEENTH CENTURY POETRY AND PROSE EXCLUSIVE OF MILTON (3 hrs.)

The stress and conflict of an age of transition, presented through the innovations of Donne and Jonson in poetry, and of Bacon, Browne, Burton, and Taylor in prose. Brief study of Cavalier and religious poetry. Prerequisite, same as for 309. (Not offered in 1956-57.)

317 (2). AMERICAN LITERATURE (3 hrs.)

Advanced studies in American literature. Concentration on a period, a genre, or a figure. Prerequisite, same as for 309. *Miss Michael*

318 (2). ADVANCED STUDIES IN THE NOVEL (3 hrs.)

Critical and aesthetic problems in the field of fiction, as seen in the work of three or four major writers. Each student will make an extended study of one figure or literary problem. Prerequisite, 218 and 219; or 225; or 226 and three additional hours of grade II literature. *Miss Corsa*

323 (1). SEMINAR. SIXTEENTH CENTURY LITERATURE (3 hrs.)

Intensive study of an author. Open, by application, to seniors who have completed six hours of grade III in literature, to specially qualified juniors, and to graduate students. (Not given in 1956-57.)

324 (2). SEMINAR. SEVENTEENTH CENTURY LITERATURE (3 hrs.)

Intensive study of an author. Prerequisite, same as for 323. *Miss Doran*

325 (1). SEMINAR. EIGHTEENTH CENTURY LITERATURE (3 hrs.)

Intensive study of an author. Prerequisite, same as for 323. (Not offered in 1956-57.)

326 (1). SEMINAR. NINETEENTH CENTURY LITERATURE (3 hrs.)

Intensive study of an author. Prerequisite, same as for 323. *Mr. Houghton*

327 (2). SEMINAR. MODERN LITERATURE (3 hrs.)

Intensive study of one or two writers in the Bloomsbury group. Prerequisite, same as for 323. (Not offered in 1956-57.) *Miss Berkman*

328. (2). SEMINAR. AMERICAN LITERATURE (3 hrs.)

Intensive study of a period or an author. Herman Melville, his works studied against the background of biography and critical theory. Prerequisite, same as for 323. (Not offered in 1956-57.) *Mr. Quinn*

In 1957-58 the department plans to offer seminars in 18th century, modern and American literature.

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Permission to register for this course must be obtained before electives are handed in. The amount of work contemplated must be indicated at the time of handing in the electives.

DIRECTIONS FOR ELECTION

The above courses, with certain exceptions, may be elected to fulfill the distribution requirement in Group I. These exceptions are writing courses and 312.

Courses 100 and 105 count for the Bachelor of Arts degree but do not count toward the major.

The major will include a concentration of 30 hours.* A semester grade II workshop is required. At least 18 hours of literature must be elected, of which 15 are to be before the modern period (*i.e.* 210, 212, 226, 308, 327). For students interested in writing, a sequence of practice courses is provided, but no two writing courses may be taken simultaneously. Writing workshops are in general limited to fifteen. In applying for enrollment in seminars or 350 work, students of at least B standing in the work of the department will have first consideration.

All students majoring in English should shape their programs with the following expectations clearly and constantly in view:

(1) to know representative works of a variety of great writers in English;
(2) to relate these works to the culture of their times;
(3) to read closely and critically;
(4) to write not only with ease and accuracy but with regard for literary form and expression.

PLACEMENT AND EXEMPTION EXAMINATIONS

Freshmen who secure the permission of the chairman may quality for entrance to grade II work in literature by passing an exemption examination covering the material of course 104.

RELATED COURSES

Knowledge of English history, of the course of European thought, and of at least one foreign literature at an advanced level (preferably in the original language) is of great value to the student of English. See, for example, History 103, 213, 217, 310; Philosophy 203 and 214; grade II and grade III courses in foreign literatures; see also Greek 104 and 203; Italian 103; Latin 105; Russian 201 and 202; Interdepartmental 107 (when not considered as part of the major†).

A student who wishes to teach English in secondary school should consider Education 200, 300 and 309, as well as English 312, THE ENGLISH LANGUAGE.

For opportunities to specialize in certain periods (*e.g.* the Middle Ages, the Renaissance), see courses in the departments of Art, History, other languages, Philosophy, *etc.* This correlation should be planned as early as possible.

* In special cases, with the permission of the department, a major of 24 hours may be permitted.

† Since Interdepartmental 107 deals primarily with literature in translation, a student deciding to major in English after taking this course may count it in the major only if she follows a course of summer reading under the direction of the department.

FRENCH

Professors: ANDRÉE BRUEL, DOCTEUR DE L'UNIVERSITÉ DE PARIS; DOROTHY WARNER DENNIS, B.A., DIPL.E.U.; EDITH MELCHER, PH.D.
Associate Professors: GERMAINE LAFEUILLE, AGRÉGÉE DES LETTRES, PH.D. (Chairman); PIERRE EMILE DEGUISE, AGRÉGÉ DES LETTRES; LOUIS JOFFRE HUDON, PH.D.
Assistant Professors: RENÉ MARIE GALAND, PH.D.; CARLO ROGER FRANÇOIS, PH.D.
Instructors: THÉRÈSE MICHELINE PICAVET, M.A.; JULIETTE BREFFORT BLESSING, DIPL. E.S.; ELÉONORE M. ZIMMERMANN, PH.D.

Lecturers: JEANETTE MCPHERRIN, M.A.; ANNE CUTTING JONES, PH.D.; MARGUERITE MAY IKNAYAN, PH.D.

All courses of the department are conducted in French. Oral expression is stressed.

Attention is called to the opportunity for residence in the French Center, Tower Court.

Well qualified students will be allowed to spend the junior year abroad. See p. 29. The Junior Year Abroad.

101. ELEMENTARY COURSE (6 hrs.)

Intensive oral work, grammar and composition, reading of selected texts as an introduction to French life, with special study of Paris. Open to students who do not present French for admission. Four class periods.

Miss Dennis, Miss Jones, Miss Iknayan

102. PARIS AND THE PROVINCES (6 hrs.)

Short stories and novels illustrating life in various regions of France serve as a basis for oral and written work. Intensive grammar review. Prerequisite, 101, or two admission units in French. Four class periods. *Miss Jones, Miss Iknayan, Mr. François, Miss Picavet, Mrs. Blessing, Miss McPherrin, Miss Zimmermann*

103. STUDIES IN CONTEMPORARY FRENCH LIFE AND THOUGHT (6 hrs.)

Selected modern texts: novels, drama, poetry. Stress on grammar, vocabulary, and pronunciation. Frequent written work and oral practice. Prerequisite, three admission units in French. Students whose classroom work has been conducted mainly in English are advised to elect this course rather than 104. Not open to students who have taken 102.

Miss Bruel, Mr. Deguise, Miss Iknayan, Mrs. Blessing, Miss Zimmermann

104. STUDY OF FRENCH MASTERPIECES (6 hrs.)

A course designed to acquaint students with French methods of literary study through the reading of works of various periods and genres: poetry, drama, fiction. Grammar review. Emphasis on oral expression and practice in writing. Prerequisite, three admission units in French, or 102. Students whose classroom work has been conducted mainly in French are advised to elect this course rather than 103. Not open to students who have taken 103.

Mr. Hudon, Miss Lafeuille, Mr. Galand, Miss Melcher

200. FRENCH LITERATURE THROUGH THE CENTURIES (6 hrs.)

First semester: from the Middle Ages to Voltaire. Second semester: Voltaire to the present. Class discussion of selected masterpieces, short papers, outside reading. Prerequisite, 103, or four admission units in French; by permission, 102, or 104.

Miss Melcher, Mr. Deguise, Mr. Galand, Mr. François, Miss Zimmermann

201. BACKGROUND OF FRENCH CULTURE (6 hrs.)

French art and literature interpreting the social and political history of France. First semester: Middle Ages and Renaissance. Second semester: 17th and 18th centuries. This course serves as a basis for advanced literature courses and for an understanding of modern France. Prerequisite, 103, 104, or four admission units in French; by permission 102.

Miss Dennis, Mr. Hudon, Miss Picavet

202. STUDIES IN LANGUAGE. I (2 hrs.)

Grammar, translation, composition. Weekly written work. Stress on grammar. Prerequisite, 103, 104, or four admission units in French; by permission, 102. *Mrs. Blessing*

204. THE MIDDLE AGES AND THE RENAISSANCE (6 hrs.)

The development of French literature from the *Chanson de Roland* through the 16th century, with emphasis on *Tristan et Iseult, Le Roman de la Rose,* and works by Villon, Rabelais, the poets of the Pléiade, and Montaigne. Medieval texts read in modern French versions. Recommended to students planning to major in French. Prerequisite, 103, 104; exceptionally 200, 201.

Miss Bruel

205. STUDIES IN LANGUAGE. II (2 hrs.)

Development of greater facility and precision in written expression for students who already have some skill in the use of French. Grammar, composition, translation. Weekly written work. Prerequisite, 200, 201, 202, 204, or 212-213; open to others by permission.

Mr. François, Miss Zimmermann

206. FRENCH SPEECH. I (2 hrs.)

Scientific training in French diction and intonation; use of phonograph records, and recording of students' speech. Open to students who have completed 104, and to those who have taken or are taking a grade II or a grade III course in French. Specially recommended to students majoring in French. Two class periods a week and one hour of practice work. *Miss Dennis*

209 (1). CONVERSATION (1 hr.)

Practive in the spoken language. Emphasis on study and use of new vocabulary through oral reports and class discussion. Reading of French periodicals, newspapers, or occasionally of recent books, to give some insight into contemporary French life and current events while providing material for practice in free oral expression. Open to students who are taking another grade II course in French, or by permission, to students taking a grade III course. Not open to freshmen. *Miss Bruel, Miss Picavet*

210 (2). CONVERSATION (1 hr.)

Method is the same as that of 209 and subject matter similar. Both 209 and 210 may be taken in the same year. Prerequisite, same as for 209.

Mr. Deguise, Miss Picavet

212 (1). FRENCH DRAMA FROM DIDEROT TO THE END OF THE NINETEENTH CENTURY (2 hrs)

The evolution of the *drame* from its origins in the 18th century; the romantic theatre, the comedy of manners, the problem play, the *Théâtre Libre,* the symbolist reaction. Prerequisite, 104 or a six-hour course of grade II, or, by permission, 103. By special arrangement with the instructor, three hours.

Miss Melcher

213 (2). FRENCH DRAMA IN THE TWENTIETH CENTURY (2 hrs.)

Neo-classic and neo-romantic trends in modern drama; symbolism, surrealism, existentialism, the return to the ancient myths. Prerequisite, 104, 212, or a six-hour course of grade II. By special arrangement with the instructor, three hours. *Miss Melcher*

300. PRE-ROMANTICISM AND THE ROMANTIC PERIOD (1750-1850) (6 hrs.)

The awakening of sensibility in the 18th century; the flowering of French romanticism. Among the authors studied are Diderot, Rousseau; Mme. de Staël, Chateaubriand; Lamartine, Vigny, Hugo, Musset; Stendhal, Balzac. Open to students who have completed 200, 201, 204, or 212-213.

Miss Melcher, Miss Lafeuille

301. CLASSICISM AND THE AGE OF ENLIGHTENMENT (1600-1750) (6 hrs.)

The study of French literature in the early 17th century; the development of classical literature; the awakening of liberal ideas during the first half of the 18th century. Among the authors studied are: the poets of the early 17th century, Corneille, Pascal, Molière, Racine, La Fontaine, La Bruyère, Montesquieu, Voltaire. Open to juniors and seniors who have completed 204, 212-213, or 300; by special permission, 200, 201. *Mr. Deguise*

303 (2). THE TEACHING OF FRENCH IN THE ELEMENTARY AND SECONDARY SCHOOL. (3 hrs.)

For description and prerequisite, see Education 303. *Miss Dennis*

305. THE EVOLUTION OF THE FRENCH NOVEL (6 hrs.)

Intensive reading of representative masterpieces: medieval romances and stories; *Gargantua* and *Pantagruel;* novels of the classical period and 18th century, such as *l'Astrée, la Princesse de Clèves, Manon Lescaut, la Nouvelle Héloïse;* 19th century novels, including works by Stendhal, Balzac, Flaubert, Maupassant, and Barrès. Open to juniors and seniors who have completed 204 or 212-213, or who have taken or are taking a grade III course. *Miss Bruel*

307. MODERN FRENCH LITERATURE (6 hrs.)

The origins and development of symbolism, the religious renascence, realism and surrealism, existentialism, present day trends. Among the authors studied are: Baudelaire, Proust, Gide, Claudel, Rimbaud, Malraux, Sartre, etc. Open to seniors who have completed 300, 301, or 305. *Mr. Galand*

308 (1). STUDIES IN LANGUAGE. III (2 hrs.)

French stylistics. Designed to develop appreciation of style and shades of meaning, and ability to express complex thought in French with discernment and accuracy. Translation, mainly from English to French, of texts taken from criticism, political theory, the novel, poetry, etc. Occasional free composition on related subjects. Specially recommended to majors. Open to juniors and seniors who have completed or are taking a six-hour course of grade III.

Mr. François, Mr. Hudon

310 (2). STUDIES IN LANGUAGE. III (2 hrs.)

A continuation of 308, with different subjects and texts. Primarily for students who have completed 308. Prerequisite, same as for 308.

Mr. François, Mr. Hudon

313. FRANCE TODAY (2 hrs.)

Discussion of various aspects of contemporary France based on reading of current material. Oral reports and occasional papers. Open to juniors and seniors who have completed six hours of grade II or by special permission of the department. *Miss Bruel*

316. FRENCH SPEECH II (2 hrs.)

Advanced scientific training in French diction and intonation with the aid of modern recording equipment. Study of varied texts and practice in oral composition and self-expression. Open to students who are taking 308 and 310, or by special permission. (Not offered in 1956-57.)

320. SEMINAR. CURRENTS OF THOUGHT IN THEIR RELATIONSHIP TO FRENCH LITERATURE (6 hrs.)

The analysis and interpretation of a selected subject such as the rise and evolution of the democratic ideal in France, the French Renaissance, conflicts of ideas in the 18th century, the evolution of French romanticism, trends in present-day literature. Open to graduates and approved seniors. (Not offered in 1956-57.)

321. SEMINAR. MEDIEVAL LANGUAGE AND LITERATURE (6 hrs.)

Close reading of medieval masterpieces in Old French: *La Chanson de Roland,* a romance by Chrétien de Troyes, the poems of Villon, extracts from other texts. Open to graduates and approved seniors. (Not given in 1956-57.)

Miss Bruel

322 (1). SEMINAR. INTENSIVE STUDY OF ONE AUTHOR (3 hrs.)

The life and works of a writer in relation to the social history and literary trends of his period. In 1956-57 the author studied will be Stendhal. Open to graduates and approved seniors. *Miss Iknayan*

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Open, by permission, to qualified graduates and seniors. The amount of work contemplated must be stated at the time of handing in electives.

DIRECTIONS FOR ELECTION

Courses 104, 200, 201, 204, 212-213, and grade III courses (except 308, 310, 313, 316) may be elected to fulfill the literature requirement in Group I.

I. Course 101 counts for the degree but does not count toward a major. Course 102 counts for the major only if directly followed by a six-hour course of grade II.

Students taking courses 101 and 102 should not elect a third course of grade I. Students planning to major in French (with the exception of those who carried a grade II course in their freshman year) should not elect a second six-hour course of grade II without permission of the department.

II. Courses 205, 308, 310 give valuable training in language skill. Students majoring in French should plan to elect at least two of these courses. Courses 206 and 316 will give intensive training in diction.

III. Students majoring in French are advised to include 301 in their program. Students proposing to elect 307 in the senior year are advised to elect 300 or 301 in the junior year.

IV. Special attention is called to Education 303. This course may be counted toward a major in French or as a related subject.

RELATED COURSES SUGGESTED FOR ELECTION

Geography 208, and History 210 and 211 are especially useful for French majors.

Students who may wish to do graduate work in French are advised to begin the study of a second modern language.

The following courses are suggested for a sound program of related work:
French 300: English 230, 231; German 204, 304, 305; Italian 204.
French 301: Greek 203; Latin 105; courses in Italian and Spanish literature which include the 16th and 17th centuries; Philosophy 214.
French 305: English 225; Spanish 302, 305.
French 307: English 210, 226; German 312; Italian 201; Spanish 204.

By careful choice of related courses, a student majoring in French may plan a field of concentration emphasizing one period, such as the Middle Ages, the Classical period, or contemporary France. Students interested in such a plan should consult the chairman of the department as early as possible.

GEOGRAPHY

Associate Professor: ELIZABETH EISELEN, PH.D. (Chairman)
Visiting Lecturers: GEORGE KNOWLTON LEWIS,[4] PH.D.; SAUL BERNARD COHEN,[4] PH.D.

Custodian: MARGARET MARSH STEELE, B.A.

104 (1), (2). GEOGRAPHY OF THE UNITED STATES, CANADA, AND ALASKA (3 hrs.)

A study of the various elements of the natural environment and of the principles underlying their distribution, with special reference to the major geographic regions of Anglo-America. Particular consideration given to environmental factors of importance to current economic and political problems. Open to all undergraduates. *Miss Eiselen*

[4] Appointed for the first semester only.

105 (2). GEOGRAPHY OF SOUTH AMERICA (3 hrs.)

A study of the environmental characteristics of the countries of South America; the influence of environment on colonization and upon the present and possible future economic development of the various countries. Open to freshmen who have taken 104, and to sophomores, juniors and seniors without prerequisite. *Miss Eiselen*

208 (1), (2). GEOGRAPHY OF EUROPE (3 hrs.)

A study of the geographic character of the European continent through the regional approach within each country; emphasis on both natural environment and human imprint in the regions; special attention given to the geographical basis for current political and economic problems. Open to sophomores who have taken 104, and to juniors and seniors without prerequisite. *Miss Eiselen*

211 (2). CARTOGRAPHY (3 hrs.)

History of maps; principles and problems involved in map making and map interpretation; use of aerial photographs and other source materials. Opportunity in laboratory for individual map projects to suit special interests of the student. Open to sophomores who have taken 104 and 105 and to juniors and seniors without prerequisite. Four periods a week; in general, two of lecture and two of laboratory.

212 (1). CONSERVATION OF NATURAL RESOURCES (3 hrs.)

A study of the natural resources of the United States with a view to understanding the need for and the principles governing their conservation; includes problems of floods, soil erosion, utilization of arid and semi-arid lands, preservation of forests, intelligent use of mineral and fuel supplies. Open to sophomores who have taken 104 and to juniors and seniors without prerequisite.

Mr. Lewis

303 (1).* GEOGRAPHY OF MIDDLE AMERICA (3 hrs.)

A geographic study of Mexico, Central America, and the Caribbean Islands; the environmental background for the formation of the many political units and for the economic development of the various countries and natural regions. Open to juniors and seniors who have taken six hours of regional geography, and to juniors and seniors majoring in Spanish who have taken 104 or 105. (Not offered in 1956-57.) *Miss Eiselen*

305 (2).* GEOGRAPHIC PROBLEMS IN AFRICA AND THE MIDDLE EAST (3 hrs.)

A study of the geography of Africa and the Middle East with emphasis on selected geographic problems. Open to students who have taken six hours in regional geography, or, by permission, to specially qualified students.

Miss Eiselen

308 (1).* GEOGRAPHY OF ASIA (3 hrs.)

A study of the geographic character of the Asiatic continent, emphasizing China, Korea, Japan, and India-Pakistan; attention given to the physical features as well as the strong cultural imprint on the land; special recognition given to the geographical background for Asia's current problems. Open to juniors and seniors who have taken six hours in regional geography, or, by permission, to specially qualified students. *Mr. Cohen*

* Offered in alternate years.

310 (1).* GEOGRAPHIC PROBLEMS IN THE SOVIET UNION (3 hrs.)

Intensive study of significant geographic problems in the U.S.S.R. Open to juniors and seniors who have taken 208 and another course in regional geography, or, by permission, to specially qualified students. (Not offered in 1956-57.)

311 (1). SEMINAR. WORLD PATTERNS (3 hrs.)

Study of selected physical elements of geography from the systematic approach as the basis for the correlation of the repeated geographic patterns of the continents into world patterns. Required of senior majors; open by permission to seniors who have completed twelve hours of regional geography.

Miss Eiselen

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open, by permission, to senior majors.

DIRECTIONS FOR ELECTION

Courses 104, 105, 208, 211 may be elected as non-laboratory science courses to fulfill part of the Group III distribution requirement. Other courses in geography do not count for distribution.

A geography major should include 104, 105, 208, 211 and 311. In addition, related work should include Botany 207 or Geology 101 (1). Geology 204 correlates well with geography.

GEOLOGY

Professor: LOUISE KINGSLEY,[3] PH.D. (Chairman)
Instructors: DABNEY WITHERS CALDWELL, M.A.; ROBERT JACKSON WILLARD,[5] M.A.

Custodian: MARGARET MARSH STEELE, B.A.

101.† GENERAL GEOLOGY (6 hrs.)

First semester: physiography. A course designed to develop understanding of the physical features of landscapes, by explaining the processes by which land forms originate and are modified, and the rocks and minerals of the earth's crust upon which these processes work. Many areas in the United States and elsewhere studied as illustrations. Foundations laid for interpreting past geologic history, and for understanding the relations of topographic features to human occupation.

Second semester: historical geology. The origin of the earth and the sequence of geologic events by which its present characters have been developed, including the origin of valuable mineral deposits. The evolution of life on the earth.

Open to all undergraduates. Six periods a week: in general, three of lecture or discussion and three of laboratory. Occasional afternoon field trips substituted for laboratory work. *Miss Kingsley, Mr. Caldwell, Mr. Willard*

103 (1). GEMOLOGY (3 hrs.)

A study of precious and semi-precious stones: geologic occurrence; properties necessary for identification and appreciative understanding of relative value and

* Offered in alternate years.

† The first semester may be elected separately by juniors and seniors who have taken a full year of laboratory science in another department.

[3] Absent on leave for the second semester.

[5] Appointed for the second semester only.

beauty. History of gems and gemology. Laboratory work includes some cutting of semiprecious stones. Open to all undergraduates. Two periods of lecture and two of laboratory. Counts toward a major in geology but not for distribution.
Miss Kingsley

202 (1). MINERALOGY (3 hrs.)

A study of minerals, including those which are economically valuable and those which are essential constituents of rocks. Identification and determination of the composition of all the better known minerals by means of physical properties and blowpipe analysis. The modes of occurrence of minerals and the industrial uses to which they are put. Prerequisite, Geology 101 or 103, Chemistry 101, or Interdepartmental 106. Two three-period appointments for lecture and laboratory. *Mr. Caldwell*

204 (2). GEOMORPHOLOGY (3 hrs.)

The history of geologic changes through the study of landscape forms. Recent developments, such as the work of the Mississippi River Commission, and investigations of the ocean floor included. Shore processes and glacial features studied in the field. Laboratory work: interpretation of topographic maps and aerial photographs. Open to students who have completed one semester of 101. Four hours a week. *Mr. Caldwell*

205 (1). PALEONTOLOGY (3 hrs.)

The facts and principles of organic evolution as revealed by the life of the past. The steps in the development from simple, generalized forms to more complex and specialized types illustrated by a comparative study of fossils. Prerequisite, 101, Zoology 101, or Interdepartmental 103. Four hours a week of lecture and laboratory. (Not offered in 1956-57.) *Miss Kingsley*

206 (2). REGIONAL GEOLOGY OF NORTH AMERICA (3 hrs.)

A systematic study of the United States, Canada, and Mexico by physiographic provinces, dealing with the geologic history, the kinds of rocks (including the economically important rocks), the structures and their relations to topography. Prerequisite, 101. Four hours a week; in general, three of lecture and one of laboratory. (Not offered in 1956-57.) *Miss Kingsley*

207 (2). ECONOMIC GEOLOGY (3 hrs.)

A study of economically valuable mineral deposits, both metallic and nonmetallic. The origin, composition, and geological and mineralogical relations of these deposits; their geographic distribution and political significance. Prerequisite, 101 and 202. Lecture, class discussion, and laboratory.
Mr. Caldwell

312 (2).* CRYSTALLOGRAPHY (3 hrs.)

Crystal systems. Principles of optical crystallography. Determination of minerals by means of their optical properties. Students interested in minerals will find good correlation between 202, 103, and 312. Open to juniors and seniors who have completed 202. Juniors and seniors majoring in chemistry or in physics may be admitted to the course upon the recommendation of the two departments concerned. Two two-period appointments for lecture and laboratory. (Not offered in 1956-57.) *Mr. Caldwell*

* Offered in alternate years.

313 (1). STUDIES IN STRATIGRAPHY (3 hrs.)

Various aspects of sedimentary rocks such as lithology, origin, environments of deposition, structures and relationships studied as aids in reading the stratigraphic record. Various laboratory techniques utilized in determining origin, history, and correlation of sedimentary materials. Individual study projects arranged as opportunity presents itself. Prerequisite, 101 and 202. Two two-period appointments for lecture and laboratory. (Not offered in 1956-57.)

Mr. Caldwell

314 (1). STRUCTURAL GEOLOGY (3 hrs.)

Description and interpretation of rock structures. The origin and structure of mountain ranges. Opportunity offered for individual study of areas of special interest. Laboratory work includes interpretation of geologic maps, the drawing of cross-sections, and graphical solution of problems. Open to juniors and seniors who have completed 101 and a grade II course in geology. Lecture and laboratory, with occasional field trips. *Miss Kingsley*

315 (2). VULCANISM AND IGNEOUS ROCKS (3 hrs.)

Extrusive and intrusive phases of vulcanism. Description, identification, and origin of igneous and related metamorphic rocks. Particular emphasis on regional studies. A portion of the work will consist of individual reports on special areas. Open to juniors and seniors who have completed 101 and 202. Lecture and laboratory, with occasional field trips. (Not offered in 1956-57.)

Miss Kingsley

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

The subject of study will be determined by the preparation of the student and by her special interests. Her work will be under the direction of the member of the department in whose field the subject lies. Open, by permission, to juniors and seniors who are majoring in the department.

SUMMER FIELD COURSES. The department will recommend summer field courses given by other colleges (dealing chiefly with the Rocky Mountain region) to interested students who have completed one year or more of geology at Wellesley. Credit may be given for such courses provided the student's plans are approved in advance by the department.

DIRECTIONS FOR ELECTION

A geology major must include 101. Grade II courses should be selected with a view to the type of advanced work which the student desires. Advice from the department should be secured. A summer field course in western United States is suggested as a good background for advanced courses.

Geography 212 and the regional courses correlate well with geology. Chemistry is desirable for students majoring in geology. Those intending to do graduate work should consult the department for advice in the selection of related courses.

GERMAN

Associate Professors: MAGDALENE SCHINDELIN, PH.D.; BARBARA SALDITT, PH.D. (Chairman)
Instructor: MARTHA JULIA GOTH, PH.D.

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German. Capable students in 101 have the opportunity, by doing special reading during the summer and upon approval of the Chairman, to omit 102 and proceed with 202, an introductory course in German literature. A summer term at the German School, Middlebury College, is recommended as stimulating and helpful.

Well qualified students will be allowed to spend the junior year in Germany. See p. 29. The Junior Year Abroad.

101. ELEMENTARY COURSE (6 hrs.)

Study of fundamental elements of German grammar; frequent written exercises; reading of short stories; special emphasis on oral expression. Open to students who do not present German for admission. Four class periods.

Miss Schindelin, Miss Salditt, Miss Goth

102. INTERMEDIATE COURSE (6 hrs.)

Extensive reading with emphasis on vocabulary building; review of fundamental principles of grammar; frequent composition and oral expression; discussion of German culture. Prerequisite, 101 or two admission units in German.

Miss Salditt, Miss Goth

104. OUTLINE HISTORY OF GERMAN LITERATURE (6 hrs.)

First semester: an introduction to German literature from its beginning to the 17th century. Second semester: an introduction to the 17th and 18th centuries, Schiller and Goethe. Open to freshmen who present three or more admission units in German. (Not offered in 1956-57.) *Miss Salditt*

202. INTRODUCTION TO GERMAN LITERATURE (6 hrs.)

A study of the development of German literature and its cultural background from 800-1800. Works read and discussed are: the *Hildebrandslied,* selections from the *Nibelungenlied,* the works of Wolfram, Gottfried, Hartmann, the Minnesingers; *Volkslied,* selections from Luther, Hans Sachs, Lessing, Herder, Schiller, Goethe. Prerequisite, 102 or, by permission, 101. Open to freshmen only by special permission of the department.

Miss Salditt, Miss Schindelin

204 (1). GOETHE (3 hrs.)

Life and work. His literary growth studied with emphasis on his development from "Sturm und Drang" to Classicism and considered in relation to 18th century literature in general. Prerequisite, 104 or 202. *Miss Salditt*

205 (1). GERMAN LITERATURE OF THE 19TH CENTURY (3 hrs.)

The development from Romanticism to Realism. Open to students who have completed 104 or 202 and, by special permission, to other students with sufficient knowledge of German. *Miss Goth*

206. CONVERSATION (2 hrs.)

Practice in the use of the spoken language. Class discussions based on readings in newspapers, periodicals, and other contemporary materials. Prerequisite, 102 or, by permission, 101. *Miss Schindelin*

207 (2). ADVANCED COMPOSITION AND CONVERSATION (3 hrs.)

Intensive work in written and oral German; composition, translation, grammar. Prerequisite, 202 or 206, or, by permission, 104. *Miss Goth*

209 (2). LINGUISTICS (2 hrs.)

Study of the structure of the German language: advanced syntax, morphology, semantics, with emphasis on synonomy. Prerequisite, 202 or 206 or, by permission, 104. (Not offered in 1956-57.)

304 (2). GOETHE'S FAUST (3 hrs.)

Intensive study of Goethe's *Faust*, Part I; extensive study of Part II. Open to students who have completed six hours of grade II. Prerequisite, 202 and 204 (1). *Miss Salditt*

305 (2). FROM CLASSICISM TO ROMANTICISM (3 hrs.)

A study of the following authors and their respective relationships to Classicism or Romanticism: Schiller, Hölderlin, Kleist. Prerequisite, at least one course of Grade III. (Not offered in 1956-57.) *Miss Salditt*

306 (2). FROM LESSING TO HERDER (3 hrs.)

Literary trends in the 18th century. Extensive selections from Lessing, Herder, and Winckelmann. Open to juniors and seniors who have completed 304. (Not offered in 1956-57.) *Miss Salditt*

308 (1). LITERATURE OF THE LATER 19TH CENTURY TO THE FIRST WORLD WAR (3 hrs.)

Intellectual and aesthetic trends of the period. Varied texts: dramas, lyric poetry, novels, essays, letters of representative authors. Prerequisite, one course of grade III. *Miss Schindelin*

312 (2). LITERATURE OF THE TWENTIETH CENTURY (3 hrs.)

Aspects and tendencies of 20th century literature with emphasis on the impact of the two world wars. Open to students who have completed 204 or 205 and to seniors by special permission. *Miss Schindelin*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to graduate students, and, by permission, to seniors. (Not offered in 1956-57.)

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 104, 202, 204, and grade III courses.

Course 101 may be counted for the degree but not for the major.

Course 102 may count for the major.

Students who begin with 101 in college and wish to major in German should consult the department in order to obtain permission to omit 102 and take 202 and 206.

Students intending to major in the department are requested to take 104 or 202 and at least 12 hours of grade III work.

Students intending to teach German will be recommended by the department only if they have taken from six to 12 hours of grade III.

GREEK

Professor: BARBARA PHILIPPA MCCARTHY, PH.D. (Chairman)
Instructor: GLORIA SHAW LIVERMORE, M.A., OXON.

101. BEGINNING GREEK (6 hrs.)

A course designed to enable students to acquire the ability to read with understanding the great works which were written in Greek. The learning of forms, syntax, and vocabulary is accompanied from the beginning by the study of brief passages from a wide range of poets and prose writers. More extended reading in the second semester from Herodotus, Plato, and Euripides. Open to students who do not present Greek for admission.

Miss McCarthy, Miss Livermore

102. MODERN GREEK (2 hrs.)

Practice in reading and speaking the Greek of today. Open by permission of the instructor. (Not given in 1956-57.) *Miss McCarthy*

104 (2). CLASSICAL MYTHOLOGY (3 hrs.)

The more important myths of the classical period in relation to the literature, art, and religion of ancient times; their influence on the literatures and art of succeeding periods. Open to all undergraduates. *Miss McCarthy*

201 (1). PLATO (3 hrs.)

Apology, Crito and selections from the *Phaedo.* The personality of Socrates and his position in the development of Greek thought. Prerequisite, 101 or two admission units in Greek, or by permission. *Miss Livermore*

202 (2). HOMER (3 hrs.)

Selected books of the *Odyssey* or other material selected to meet the needs of the class. This course is intended primarily for those who have already studied the *Iliad.* Prerequisite, 201 (Not given in 1956-57.) *Miss McCarthy*

203 (1). GREEK LITERATURE IN ENGLISH TRANSLATION: EPIC, TRAGEDY (3 hrs.)

The *Iliad* and *Odyssey,* and plays of Æschylus, Sophocles, and Euripides. The origin of epic poetry and tragedy and their influence on later literature. Open to juniors and seniors without prerequisite, and to sophomores who have completed a course in literature in any department.

Miss McCarthy, Miss Livermore

205 (2). HOMER (3 hrs.)

Selected books of the *Iliad.* Prerequisite, 201 or by permission.

Miss McCarthy

301. GREEK DRAMA (6 hrs.)

Reading and study of plays of Æschylus, Sophocles, Euripides and Aristophanes. Prerequisite, 205 or 202, or by permission.

First semester, Miss McCarthy; second semester, Miss Livermore

302. GREEK POETRY FROM HOMER THROUGH THEOCRITUS (6 hrs.)

Epic, lyric, and pastoral poetry. Prerequisite, 205 or 202. By permission, students may elect either semester as a semester course. (Not offered in 1956-57.) *First semester, Miss McCarthy; second semester, Miss Livermore*

306. GREEK PROSE FROM HERODOTUS THROUGH LUCIAN (6 hrs.)

Reading from Herodotus, Thucydides, Plato and Lucian, chosen according to the interests of the class. Prerequisite, 205 or 202. By permission, students may elect either semester as a semester course. (Not offered in 1956-57.)

Miss Goodfellow

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to seniors by permission, and to graduate students.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect any course in Greek except 101, 102.

Courses 104 and 203 may not be counted toward a major in Greek.

Students majoring in Greek are advised to elect some work in Latin. Their attention is also called to the courses in Greek history, Greek art, and Greek philosophy.

Students interested in archeology are referred to the interdepartmental major in classical archeology (see page 46).

Qualified students may fulfill the second semester of the Biblical history requirement by electing Biblical History 210, THE FIRST THREE GOSPELS IN GREEK.

HISTORY

Professors: EVELYN FAYE WILSON, PH.D.; HENRY FREDERICK SCHWARZ, PH.D. (Chairman)

Associate Professors: CHARLOTTE ELIZABETH GOODFELLOW,[1] PH.D.; EDWARD VOSE GULICK, PH.D.

Assistant Professors: JOSEPH LEWIS SULLIVAN, PH.D.; RALPH WELLER GREENLAW, PH.D.; ALICE BIRMINGHAM COLBURN,[1] M.A.

Instructors: GABRIEL JACKSON, DOCTEUR DE L'UNIVERSITÉ DE TOULOUSE; KATHRYN LEE CONWAY TURNER, M.A.; PATRICIA HOCHSCHILD, M.A.

Lecturer: BEATRICE SHEPHERD BLANE, PH.D.

101. MEDIEVAL AND EARLY MODERN EUROPE (6 hrs.)

A study of the origins of modern European civilization and the modification of political, social, and economic institutions and concepts under changing conditions: the development of Christianity and Christian churches; the assimilation of the heritage of the ancient world; feudalism and the rise of the middle class; and the development and expansion of the national state. Open to all undergraduates. This course, 102 or 103 is prerequisite to later election.

Miss Wilson, Mr. Greenlaw, Miss Hochschild

102. MODERN EUROPEAN HISTORY (6 hrs.)

A survey of the European world in the 17th century. The evolution of modern Europe as determined by such movements as colonial expansion, economic and

[1] Absent on leave.

political revolutions, ideological changes, and international relations. The emergence of present world problems. Open to all undergraduates. This course, 101 or 103 is prerequisite to later election.

Mr. Sullivan, Mr. Schwarz, Mr. Gulick, Mr. Greenlaw, Miss Blane

103. HISTORY OF WESTERN THOUGHT (6 hrs.)

The basic ideas which have moulded western civilization traced in their development from classic times in relation to the major trends in western European history. Illustrated by reading from works of great historical importance. Open to sophomores, juniors, and seniors who have not taken 101 or 102 and, by permission, to freshmen who have some knowledge of European history.

Mr. Sullivan, Miss Hochschild

200. HISTORY OF EUROPE FROM THE DECLINE OF ROME TO THE PRESENT TIME (6 hrs.)

The development, out of medieval society, of national states, industrialization, European expansion overseas, world conflicts. Modern efforts to restore a sense of unity to society. (Primarily for non-majors.) Open to juniors and seniors, except those who have taken 101 or 102. *Mr. Schwarz*

202 (1), (2). EUROPE IN THE 20TH CENTURY (3 hrs.)

The causes and course of the War of 1914-18, the peace settlements, revolutions and the emergence of communism, fascism and national socialism, social and economic tension, rivalries among the powers, the recent conflict. Prerequisite, six hours in history or political science or economics.

Mr. Jackson

205 (2). COLONIAL AMERICA (3 hrs.)

The foundation and growth of the British colonies in America. Emphasis upon colonial policy and administration, and upon the causes and course of the American Revolution. Open to juniors and seniors without prerequisite, and to other students who have completed six hours in history or who have completed or are taking Economics 204, English 223, Geography 104, Philosophy 204. (Not offered in 1956-57.)

206.* CENTRAL EUROPE (6 hrs.)

A survey of Central Europe—Germany, Poland, Bohemia, and the Danube Valley—since the 14th century; the political evolution of the states in this area, with emphasis on social and cultural developments and relationships. Open to students who have completed six hours in history or who are giving special attention to the study of German. *Mr. Schwarz*

209.* MODERN RUSSIA (6 hrs.)

The expansion of the Russian state under the imperial and communist regimes; efforts at reform in the 18th and 19th centuries, the growth of revolutionary movements, the Bolshevik seizure of power, and the continuing problems of the Soviet government. First semester, Muscovy and the Empire to the end of the 19th century; second semester, the tsarist failure and the new totalitarianism. By permission, either semester may be taken independently. Open to

* Offered in alternate years.

all seniors, to juniors who have completed or are taking another course in history, and to sophomores who have completed six hours. (Not offered in 1956-57.)
Mr. Sullivan

210 (1). The Age of Louis XIV in France (3 hrs.)

Society and government in France during the "golden age" of absolutism. A study of the nature of the absolute monarchy and foreign relations under Louis XIV, with analysis of the social and intellectual life of the age. Prerequisite, six hours of history; no prerequisite to those giving special attention to the study of French. *Mr. Greenlaw*

211 (2). The Enlightenment, The French Revolution, and Napoleon (3 hrs.)

An analysis of the intellectual, social, and political forces in France after 1715 which combined to produce the crisis of 1789. Followed by a study of the era of the Revolution and Empire, with emphasis on the new social and political ideals of this period and on the relations of France with Europe. Prerequisite, same as for 210. *Mr. Greenlaw*

213. History of England (6 hrs.)

A general survey of English history, political, social, economic, and cultural, with special emphasis on England's contributions to the modern world. Some attention to England's oversea expansion and the formation of the British Empire. Open to sophomores, juniors, and seniors who have completed six hours in history or are giving special attention to English literature, political science, economics, or sociology.
Miss Blane

214. The Hispanic World (6 hrs.)

First semester: the Moslem-Hebrew-Christian civilization of the Middle Ages, the Reconquest and Spanish Renaissance, the age of discovery and the colonial era in Latin America. Second semester: the Latin American republics since the Independence; cultural renaissance and critical political developments in 19th and 20th century Spain. Prerequisite, six hours in history. No prerequisite to sophomores, juniors and seniors majoring in Spanish. By permission of the instructor, either semester may be taken separately.
Mr. Jackson

217. The Renaissance and Reformation in Europe (6 hrs.)

A study of relationships between economics, politics, and culture in western Europe, 1300-1600: the rise of capitalism and the middle class, the renaissance state, and humanism in its various aspects. In the second semester, the Protestant revolt and the Catholic reformation. By permission, either semester may be taken independently. Prerequisite, six hours in history or art. *Miss Wilson*

221 (1). The Founding of American Nationality, 1787-1865 (3 hrs.)

The colonial period, the framing and adoption of the Constitution, economic and political developments, the growth of nationalism and sectionalism, the Civil War. Open to juniors and seniors without prerequisite, and to other students who have completed six hours in history or who have taken or are taking Economics 204, Geography 104, Philosophy 204, or Political Science 201 or 202. *Mrs. Turner, Mr. Jackson*

222 (2). THE EMERGENCE OF MODERN AMERICA, 1865 TO THE PRESENT TIME (3 hrs.)

The era of reconstruction, the triumph of capitalism, the progressive period, the New Deal and the role of the United States in world affairs during the 20th century. Prerequisite, same as for 221. *Mrs. Turner, Mr. Jackson*

225 (1). INTERNATIONAL RELATIONS: THE FAR EAST (3 hrs.)

China and Japan in the 19th and 20th centuries, with emphasis on their distinctive cultures, the impact of the West on those cultures, the Chinese revolution, Japanese expansion, and the emergence of Chinese communism. Special attention to the interests of Europe and America in the Far East. Open to all seniors, to juniors who have taken or are taking another course in history, and to sophomores who have completed six hours. *Mr. Gulick*

302.* CIVILIZATION OF GREECE (6 hrs.)

A study of the Near Eastern civilizations by which the Greeks were influenced. The social, economic, and political development of the Greek city-state; the most significant aspects of Greek civilization for the Western World. Museum trips, illustrated lectures, and readings from works of the great writers. Open to juniors and seniors who have taken or are taking six hours of grade II in history; no prerequisite to those who are giving special attention to the classics or Greek philosophy. By permission of the instructor the first semester may be taken independently. *Miss Livermore*

303.* CIVILIZATION OF ROME (6 hrs.)

Rome's experiments in government and the attempts of her statesmen to solve the social and economic problems of the Republic and Empire; Rome's culture and legacy to the modern world. Museum trips, illustrated lectures, and readings from the sources. Open to juniors and seniors who have taken or are taking six hours of grade II in history; no prerequisite to those who are giving special attention to the classics. By permission of the instructor, the first semester may be taken independently. (Not offered in 1956-57.) *Miss Goodfellow*

304 (2). ENGLAND UNDER THE TUDORS AND STUARTS (3 hrs.)

The Renaissance and Reformation in England; Puritanism and its accompanying democratic ideals; the constitutional struggles of the 16th and 17th centuries; social and economic changes initial to the founding of the British Empire. Open to juniors and seniors who have completed 12 hours in history. (Not offered in 1956-57.)

305. DIPLOMATIC HISTORY OF EUROPE SINCE 1789 (6 hrs.)

Problems of European diplomacy and statecraft from 1789 to the present, with emphasis on the Congress of Vienna, the Eastern Question, Bismarck, the causes of World War I, peacemaking in 1919, and the causes of World War II. Open to juniors and seniors who have had 12 hours of history, including three hours of modern history; by permission, to specially qualified students in political science or economics who have had History 102 or 200. *Mr. Gulick*

306. BRITISH HISTORY SINCE 1815 (6 hrs.)

Postwar problems and conditions in England in 1815. The significant develop-

* Offered in alternate years.

ments in the political, social, and intellectual history of Great Britain and the British Empire, and England's part in world affairs, until the present. First semester, emphasis on political, social, and cultural developments in England; second semester, emphasis on foreign relations and imperial affairs. By permission of the instructor, either semester may be taken independently. Open to juniors and seniors who have completed nine hours in history or Economics 209. *Miss Blane*

307. AMERICAN FOREIGN RELATIONS (6 hrs.)

The most significant diplomatic problems which have arisen as the result of war, westward expansion, the growth of foreign commerce, immigration, and the challenge of totalitarianism. The origin of important treaties, the development of the Monroe Doctrine, and the evolution of the United States into a world power. Open to juniors and seniors who have completed 12 hours in history, or nine hours in history and Economics 314, or who have taken or are taking Political Science 208 or 301. *Mrs. Turner*

308 (2). EUROPEAN IMPERIALISM SINCE 1870 (3 hrs.)

Survey of European overseas empires from 1870 to the present, tracing their growth, their special problems, the development of colonial nationalism, and the great changes after World War II. Emphasis on the motives and on the prominent theories of imperialism. Primary attention to Africa, Southern Asia, and Indonesia. Open to juniors and seniors who have completed 12 hours in history or nine hours in history and Economics 314. *Mr. Gulick*

309. MEDIEVAL CULTURE FROM ST. AUGUSTINE TO DANTE (6 hrs.)

A study of society, thought, and learning in the early Middle Ages, the influence of Byzantine and Moslem civilizations in the West, the medieval renaissance, and the synthesis of the 13th century. Open to juniors and seniors who have had a course of grade I or II, or are taking a course of grade III, in medieval history, art, literature, or philosophy. *Miss Wilson*

310. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES (6 hrs.)

The ideas associated with the development of American culture as they are embodied in political thought, religion, the arts, philosophy and social institutions from the colonial period to the present time. Open to juniors and seniors who have had 221 and 222 or by permission of the instructor. *Mrs. Turner*

312 (2).* INTERNATIONAL RELATIONS: THE NEAR EAST (3 hrs.)

The evolution of European interest in the critical area between the Eastern Mediterranean and the Persian Gulf during the decline of the Turkish Empire in the 19th century with emphasis on 20th century conflicts resulting from national aspirations and economic tensions. Open to juniors and seniors who have either (1) completed a course of grade I and have taken or are taking six hours of grade II in history, or (2) completed six hours of grade II in history. Specially qualified non-majors who have not had the prerequisites may be admitted by permission. *Mr. Sullivan*

* Offered in alternate years.

313 (1).* RUSSIA IN TRANSITION. A CENTURY OF RUSSIAN CIVILIZATION (3 hrs.)

Life and thought in Russia since the middle of the 19th century. Changes in political institutions, social structure, ethical and artistic standards, with special attention given to prominence and significance in Russian history of Tolstoy, Dostoyevski, and Lenin. Prerequisite, same as for 312. *Mr. Sullivan*

314.* POLITICAL AND CULTURAL HISTORY OF GERMANY SINCE THE 17TH CENTURY (6 hrs.)

A study of German society, and the evolution of the intellectual and artistic life of Germany against the background of political institutions and relationships, from the middle of the 17th through the 19th century. Attention given to the diversity of German culture and to the effect of outside influences and their assimilation. Open to juniors and seniors who have completed or are taking six hours of grade II in history. Specially qualified students who have not completed the prerequisite may be admitted by permission. (Not offered in 1956-57.) *Mr. Schwarz*

315 (2). SEMINAR. INTERPRETATIONS OF HISTORY (3 hrs.)

The changing conceptions of history as illustrated by a study of selected historians from Herodotus to the present time. Emphasis upon the relation of these conceptions to the intellectual background out of which they developed and their influence upon contemporary historical thought. Open to qualified seniors who are majoring in history. *The Teaching Staff*

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Individual work open by permission of the department to juniors and seniors who have completed or are taking a course of grade III in history. The amount of work contemplated must be indicated at the time at which electives are due.

DIRECTIONS FOR ELECTION

Students electing history may choose any of the introductory courses 101, 102 or 103, but not more than one of these courses may be counted in a program of concentration.

For purposes of the general examination in history required of major students, the work of the department has been distributed among five fields: (1) Ancient, (2) Medieval and Early Modern to 1648, (3) Modern European, (4) American and Latin-American, (5) International relations (includes also foreign policy, diplomatic history, imperialism, British Empire). A student concentrating in history will normally distribute her elections so as to include at least a semester's work above the level of grade I in *three* of these fields. It is, nevertheless, also possible, if a student so desires, to design a major which will conform to these limitations, and at the same time emphasize a period (e.g. Medieval) or an area (e.g. the history of international relations) of study. Students who wish to make such an emphasis should consult with the chairman or with their special adviser in the department as early as possible.

It is suggested that students other than history majors who propose to teach history elect at least 24 hours in the department.

* Offered in alternate years.

PLACEMENT AND EXEMPTION EXAMINATIONS

Students who before entering college have had unusual preparation in European history with regard to both amount and type of training may apply for examination for exemption from the requirement for distribution, or for entrance directly into grade II work. In addition to the evidence offered by the examination, they will be expected to give further indication of their training by submitting papers prepared in secondary school for their classes in history.

INTERDEPARTMENTAL COURSES

103.* AN INTRODUCTORY COURSE IN BIOLOGY (6 hrs.)

A course designed to introduce the student to fundamental biological principles as a basis for an understanding of the nature and the unity of living things and of the place of man in the biologic world. Open to students who have not offered biology for admission. In general, two hours of lecture and discussion and four of laboratory or field work. *Mrs. Houck, Miss Creighton*

106.* AN INTRODUCTORY COURSE IN PHYSICAL SCIENCE (6 hrs.)

A course designed to acquaint the student with some of the basic concepts of physics and chemistry, the characteristics which these sciences possess in common, and an appreciation of the methods by which the concepts have been developed. Selected fundamental concepts and principles studied in a setting which includes both the circumstances surrounding their evolution and their effect on modes of scientific thought. Open to students who do not present chemistry or physics for admission. Three periods of lecture and discussion and one three-period laboratory appointment. (Not offered in 1956-57.)
Miss Webster, Miss Fleming

107.** INTERPRETATIONS OF MAN IN WESTERN LITERATURE (6 hrs.)

Representative views of the nature of man, and of his relation to the universe and society, reflected in the work of major writers of the western world; the expression of their thought in significant artistic form, such as epic, drama, essay. Open to sophomores, juniors, and seniors, and to specially qualified freshmen by permission of the Dean of Freshmen. *Miss Taylor, Mrs. Hamilton*

200.*** HISTORY OF SCIENCE (6 hrs.)

A course designed to trace the development of scientific ways of thinking and to show how scientific ideas, methods and theories both reflect and influence man's thought in other areas. The subject developed chronologically with the aim of giving the student an appreciation and understanding of current scientific work. Open to juniors and seniors who have completed a year's work in a laboratory science and in history or philosophy. Three periods of lecture and discussion. (Not offered in 1956-57.) *Miss Webster*

* This course may be elected to fulfill the laboratory science requirement in Group III.

** This course may be elected to fulfill the literature requirement in Group I.

*** This course may be elected to complete the distribution requirement in Group III after the student has taken a six hour laboratory course.

INTERDEPARTMENTAL MAJOR

For description of an interdepartmental major in Classical Archeology, see page 46.

ITALIAN

Associate Professor: GRAZIA AVITABILE, PH.D. (Chairman)
Instructor: LYDIA IOLE SOLIMENE, M.A.

The language of the classroom is Italian except for occasional necessary explanations of grammar and idioms.

A limited number of qualified students are permitted, when practicable, to spend the junior year in Italy with the foreign study group of Smith College.

A summer term at the Italian School, Middlebury College, is recommended.

101. ELEMENTARY COURSE (6 hrs.)

The fundamental elements of Italian grammar and a general view of Italian civilization. Frequent oral and written exercises. Reading aloud with special emphasis on correct pronunciation. Four class periods and five hours of preparation each week. Open to students who do not present Italian for admission.

Miss Avitabile, Miss Solimene

103. INTRODUCTION TO THE STUDY OF THE ITALIAN RENAISSANCE (6 hrs.)

First semester: intensive study of the Italian language and of the background for a general knowledge of Italy in the Renaissance. Second semester: reading and discussion of selections from outstanding Italian authors of the period such as: Petrarca, Boccaccio, Vasari, Leonardo da Vinci, Machiavelli, Castiglione, Bandello, Tasso, and Guarino. The language used in the classroom is English. No prerequisite. Open to seniors and, by special permission, to juniors.

Miss Avitabile

201. HISTORY OF ITALIAN LITERATURE IN THE 20TH CENTURY (6 hrs.)

Emphasis on drama and fiction as represented by the work of D'Annunzio, Pirandello, Deledda, and others. Prerequisite, 101 or equivalent. *Miss Solimene*

203 (1). INTERMEDIATE ITALIAN (3 hrs.)

Composition with special attention to syntax, and practical phonetics and conversation. The subject matter of this course will deal chiefly with contemporary Italy. Open to students who have completed 101. *Miss Avitabile*

204. LITERATURE OF THE 19TH CENTURY (6 hrs.)

Romanticism, classicism, nationalism, realism. An intensive study of selected works by Manzoni, Mazzini, Leopardi, Carducci, Verga. Prerequisite, 101 or equivalent. *Miss Solimene*

301.* DANTE AND HIS TIME (6 hrs.)

The outstanding characteristics of the Middle Ages and its writers. The reading of Dante's *Divina Commedia* and *Vita Nuova* in the original and in full. Open to juniors and seniors. Prerequisite, 201 or 204.

Miss Avitabile

* It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection.

302 (2). ADVANCED ITALIAN (3 hrs.)

Translation from modern literary and scientific works. Conversation based on articles in Italian newspapers and reviews. Open to students who have completed 101 and 201 or 204. *Miss Avitabile*

307.* DRAMA AND SHORT STORIES IN THE ITALIAN RENAISSANCE (6 hrs.)

Emphasis on the plays of Poliziano, Guarini, Machiavelli, Ariosto, Tasso, Aretino, and Lasca, and on the short stories of Boccaccio and Bandello. Open to juniors and seniors who have completed or are taking 301. (Not offered in 1956-57.) *Miss Avitabile*

308.* HISTORY AND EPICS IN THE ITALIAN RENAISSANCE (6 hrs.)

A detailed study of Machiavelli's and Guicciardini's works, considered as literary masterpieces, and the poems of Pulci, Boiardo, Ariosto, and Tasso. Open to juniors and seniors who have completed or are taking 301. (Not offered in 1956-57.) *Miss Avitabile*

309* (1). SEMINAR. ITALIAN ROMANTICISM (3 hrs.)

Research in some significant phases of Italian Romanticism. Open by permission of the instructor. *Miss Avitabile*

350.* RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

By consultation with the department students may arrange for individual work. Open, by permission, to juniors and seniors who have completed or are taking a course of Grade III in the department.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 201, 204, and grade III courses (except 302).

A major in Italian is generally based on 101. It is very desirable that students majoring in Italian should have had or be taking a college course in one of the ancient or modern languages, and should elect such courses in history and art as deal in whole or in part with Italian civilization and culture. Such courses will be required of students working for honors.

Students majoring in Italian are advised to include in their programs 201 or 204, 203, 301, 302, and 307 or 308.

NOTE:—101 may not count toward the major.

LATIN

Professors: DOROTHY MAE ROBATHAN, PH.D.; MARGARET ELIZABETH TAYLOR, PH.D. (Chairman)
Associate Professor: CHARLOTTE ELIZABETH GOODFELLOW,[1] PH.D.
Instructor: GLORIA SHAW LIVERMORE, M.A., OXON.

102. BEGINNING LATIN (6 hrs.)

A course designed to enable students to acquire in one year sufficient knowl-

* It will be the privilege of students in grade III courses to have access to the manuscripts and early—often contemporary—editions of Italian authors contained in the Frances Pearsons Plimpton Collection.

[1] Absent on leave.

edge of grammar and syntax for the reading of Latin authors. Reading will include simple Latin and selections from classical writers. Open to students who do not present Latin for admission. (Not given in 1956-57.) *Miss Livermore*

103. VERGIL AND LYRIC POETRY (6 hrs.)

Epic: Selections from the *Æneid;* Lyric: Catullus and Horace. Prerequisite, two admission units of Latin or three units not including Vergil, or 102. *Miss Taylor*

105 (2). LATIN LITERATURE IN ENGLISH TRANSLATIONS (3 hrs.)

The most important prose and poetry of Rome, such as the works of Plautus and Terence, Lucretius, Cicero, Vergil, Horace, and Tacitus. Their influence on modern literary forms stressed. Lectures on the development of Latin literature. No prerequisite. Not open to students who have had or are taking 201. *Miss Livermore*

106. MEDIEVAL LATIN (6 hrs.)

Readings from Latin writers in the fields of literature, history, and philosophy of the Middle Ages, including Cassiodorus, Gregory the Great, Bede, Geoffrey of Monmouth, Erasmus, Abelard, the chroniclers of the Crusades, the romancers of the *Gesta Romanorum,* religious drama, songs of the Goliards, and church hymns. Only so much attention given to linguistic study as the reading requires. Prerequisite, two or three admission units of Latin, or 102. (Not offered in 1956-57.) *Miss Goodfellow*

201. STUDIES IN LATIN LITERATURE OF THE REPUBLIC AND EARLY EMPIRE (6 hrs.)

Reading of the first semester drawn from a variety of types and authors: the lyrics of Catullus, a comedy of Plautus or Terence, and Cicero's essays; the second semester largely devoted to the Odes of Horace. Prerequisite, four admission units of Latin or 106; or, by permission, three units including one of Vergil. *Miss Robathan*

206. COMPOSITION (2 hrs.)

Studies in syntax and the writing of Latin prose. Prerequisite, 103 or 106 or 201. *Miss Robathan*

211 (1). LUCRETIUS (3 hrs.)

Reading from the *De Rerum Natura,* the poetry and philosophy of Epicureanism. Prerequisite, 103 or 201. *Miss Taylor*

212 (2). IDEALS OF EARLY ROME REVEALED IN LITERATURE OF THE GOLDEN AGE (3 hrs.)

Different themes selected for emphasis, such as: significant legends of the early city, the sense of Rome's destiny, moral values in family and state, Roman Stoicism. Reading selected chiefly from Livy, Cicero's essays, Ovid's *Fasti,* and correlated with the student's earlier reading of Vergil and Horace. Prerequisite, 103 or 201. *Miss Robathan*

301 (2). THE TEACHING OF LATIN IN THE SECONDARY SCHOOL (3 hrs.)

For description and prerequisite, see Education 301. (Not given in 1956-57.) *Miss Robathan*

302 (1). SATIRE. HORACE AND JUVENAL (3 hrs.)

The origin and development of satire as a literary form. Special emphasis upon the satires of Horace and Juvenal; other Roman satirists studied by topics and reports. Prerequisite, 211 and 212. *Miss Robathan*

303 (2). LATIN EPIGRAPHY (3 hrs.)

Selected inscriptions studied both for form and content as sources for the study of Roman public and private life. Prerequisite, 211 and 212. (Not offered in 1956-57.) *Miss Robathan*

304 (1). TOPOGRAPHY OF ROME (3 hrs.)

The early history of Rome, its development, the construction and furnishings of typical public and private buildings in the capital and in provincial towns. Such study of the material surroundings connected with the literary and social development of the Roman people. Prerequisite, 211 and 212. (Not given in 1956-57.) *Miss Robathan*

305 (1). COMEDY. PLAUTUS AND TERENCE (3 hrs.)

Careful study of representative plays followed by the rapid reading of others. The sources of Latin comedy, its linguistic and literary features, and its influence upon later literature. Prerequisite, 211 and 212. *Miss Robathan*

306 (2). STUDIES IN ROMAN RELIGION (3 hrs.)

The changing religious experience of the Republican period and of the early Empire; the influence of Oriental cults. Readings from the sources, especially from Livy, Cicero, and Ovid. Prerequisite, 211 and 212. *Miss Taylor*

309 (1). PROSE LITERATURE OF THE EARLY EMPIRE (3 hrs.)

History: Livy, Tacitus, Suetonius, Velleius Paterculus. Reading based on choice of topics. Prerequisite, 211 and 212. (Not offered in 1956-57.) *Miss Goodfellow*

311 (2). VERGIL (3 hrs.)

The *Eclogues, Georgics, Æneid.* The poet's achievement in the pastoral, didactic and heroic epic; studies in his literary inheritance from the Greek and his influence on later literature. Prerequisite, 211 and 212. (Not offered in 1956-57.) *Miss Taylor*

312 (2). POETRY OF THE EMPIRE (3 hrs.)

Elegy: Tibullus, Propertius, Ovid. Selections from representative poets of the later period. Prerequisite, 211 and 212. *Miss Robathan*

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Open to graduate students and, by permission, to juniors and seniors.

DIRECTIONS FOR ELECTION

The literature requirement in Group I may be met by electing from the following list of courses: 103, 105, 106, 201, 211, 212, 302, 305, 309, 311, 312.

Courses 102, 105, count for the degree but do not count toward a major in Latin.

Students intending to major in Latin are advised to take at least one course in Greek and History 303. Attention is also called to Art 201 and 209 and to courses in ancient philosophy.

Students who plan to teach Latin are strongly advised to elect at least six hours of grade III and Education 301.

Courses 303, 304, and 306 should in general be elected only in combination with courses in Latin literature.

Recommended students may elect an interdepartmental major in classical archeology (see page 113).

MATHEMATICS

Professors: MARION ELIZABETH STARK, PH.D. (Chairman); HELEN GERTRUDE RUSSELL,[1] PH.D.
Assistant Professor: JACQUELINE PASCAL EVANS, PH.D.
Instructor: ISABEL STEWART MACQUARRIE, M.A.
Lecturer: RALPH NATHANAEL JOHANSON, PH.D.

Course 106 is for students who have not had a course in trigonometry, 107 for those who have spent a half-year in studying this subject.

Students should consult the announcements of the departments of astronomy, chemistry, economics, philosophy, and physics for courses to which mathematics is either an absolute or an alternative prerequisite.

106. TRIGONOMETRY, ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS (6 hrs.)

Plane trigonometry, plane analytic geometry, elementary differentiation and integration with applications. Prerequisite, three admission units in mathematics.
Miss Evans, Mrs. Macquarrie

107. ANALYTIC GEOMETRY, INTRODUCTION TO THE CALCULUS (6 hrs.)

Similar to 106, but a prerequisite of trigonometry makes it possible to consider additional topics and applications connected with analytic geometry and elementary calculus. Prerequisite, three admission units in mathematics and a course in trigonometry equivalent to that outlined by the College Entrance Examination Board. *Miss Stark, Mrs. Macquarrie, Mr. Johanson*

202. DIFFERENTIAL AND INTEGRAL CALCULUS (6 hrs.)

A study of the derivative and the integral including geometric and physical interpretations. Prerequisite, 106 or 107. *Miss Evans, Mrs. Macquarrie*

205 (1).* INTRODUCTION TO MATHEMATICAL STATISTICS (3 hrs.)

Fundamental statistical methods, with special emphasis on the use of elementary mathematics and the calculus in the development of theory and in practice. Assigned laboratory work included. Prerequisite or corequisite, 202.
Miss Stark

206 (1).* DESCRIPTIVE GEOMETRY (3 hrs.)

The theory underlying architectural and engineering drawing. Problems involving the use of two or more planes of projection in representing points, lines,

* Offered in alternate years.
[1] Absent on leave.

and planes. Revolution applied to measurement. Prerequisite or corequisite, 202. All students must have a knowledge of the elements of solid geometry. The department will give directions for gaining readily the necessary acquaintance with this subject. Three periods of lecture or discussion with two laboratory periods. (Not offered in 1956-57.) *Miss Stark*

302. FUNCTIONS OF A REAL VARIABLE (6 hrs.)

Continuity and other properties of functions; convergence of series; representation of functions by power series and definite integrals. Infinite products, infinite integrals, Fourier series, and other allied subjects. Prerequisite, 202. *Miss Stark*

303 (1).† DIFFERENTIAL EQUATIONS (3 hrs.)

An introductory course in ordinary differential equations. Prerequisite, 202. *Mrs. Macquarrie*

304 (2).° INTRODUCTION TO MODERN ALGEBRAIC THEORY (3 hrs.)

Topics in algebraic theory which are of importance in the study of geometry and analysis as well as in the development of higher algebra. Prerequisite, 202. (Not offered in 1956-57.) *Mrs. Macquarrie*

308. FUNCTIONS OF A COMPLEX VARIABLE (6 hrs.)

Elementary treatment of analytic functions. Infinite series, transformations, and conformal mapping. Prerequisite, 302. *Miss Evans*

309 (2).° PROJECTIVE GEOMETRY (3 hrs.)

Concepts and theorems of projective geometry developed by both synthetic and analytic methods. Prerequisite, 202. *Mrs. Macquarrie*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hours)

Open by permission of the department to qualified seniors.

DIRECTIONS FOR ELECTION

A major must include at least 12 hours of grade III in mathematics.

Only those students who have completed satisfactorily at least six hours of grade III in mathematics will be recommended as teachers of mathematics.

PLACEMENT AND EXEMPTION EXAMINATIONS

An examination for exemption from a course in mathematics to satisfy partially the distribution requirement in Group III will be offered to students who have been unusually well prepared in algebra, trigonometry, analytic geometry, and the elements of differentiation and integration.

Students desiring to enter directly into grade II work may either apply for the exemption examination or give evidence of having completed the work in secondary school in a satisfactory manner.

† Astronomy 300, Physics 304, Physics 308 may be counted toward a major in mathematics. Physics 308 must be preceded by Mathematics 303.

° Offered in alternate years.

MUSIC

Professors: HOWARD HINNERS, B.A.; HUBERT WELDON LAMB,[2] B.A.
Associate Professor: JAN LARUE, PH.D. (Chairman)
Research Librarian: HELEN JOY SLEEPER, M.A., MUS.B.
Instructors: WILLIAM A. HERRMANN, JR., M.A. (Director of the Choir); MARILYN PURNELL, M.A.; ELIZABETH DAVIDSON, B.A.

Lecturer: GREGORY TUCKER[5]

Instructors in Practical Music: DAVID BARNETT, B.A. MUS.D. (Hon.) (Piano); ALFRED ZIGHERA (Cello); MELVILLE SMITH, B.A. (Organ); KLAUS GOETZE (Piano); RUTH POSSELT BURGIN (Violin); MARGARET TORBERT DUESENBERRY, M.A. (Violin and Director of the Orchestra); JAMES PAPPOUTSAKIS (Flute); PAUL MATTHEN, B.A. (Voice); FRANK COCHRAN TAYLOR II, B.A. (Organ).

101. FUNDAMENTALS AND ELEMENTARY ANALYSIS (6 hrs.)

Notation, modes, intervals, chords. Analytical study of the elements of music. Introduction to the principles of harmony as exemplified in the forms of the classical period. Drill in ear training, sight singing, clef reading, and transposition. Open to all undergraduates. Four periods a week, one of lecture and three section meetings. *Miss Davidson*

103. INTRODUCTION TO MUSICAL LITERATURE (6 hrs.)

An historical survey course designed to develop the student's musical understanding, insight, and powers of observation through the study of music of various styles and periods. No previous knowledge of music required. Open to sophomores, juniors, and seniors who have had no other course in the department, and to qualified freshmen by permission of the department chairman. Not to be counted toward a major. Three hours of lecture and one section meeting a week. *Mr. Herrmann, Miss Purnell*

200. HISTORY OF MUSICAL STYLE (6 hrs.)

A survey of materials and methods of composition from the earliest times to the present. Open to students who have completed 101 or who have been exempted from 101 on the basis of the test in fundamentals. Two two-hour periods of lecture and conference a week. *Mr. LaRue*

201. ELEMENTARY HARMONY (6 hrs.)

Triads and their inversions, secondary dominants, modulation, and nonharmonic tones. Harmonization of melodies and unfigured basses. Ear training. Open to students who have completed 101 or who have been exempted from 101 on the basis of the test in fundamentals. Students must have sufficient facility at the keyboard to play hymn tunes at sight. *Mr. Hinners*

209 (1). THE CLASSICAL PERIOD (3 hrs.)

The development of the classical sonata, string quartet, symphony, and concerto. Prerequisite, 101 or 103. Not to be counted toward a major. *Miss Purnell*

210 (2). THE ROMANTIC PERIOD (3 hrs.)

[2] Absent on leave for the first semester.
[5] Appointed for the second semester only.

Study of the larger forms of the 19th century through analysis of selected works. Prerequisite, 101 or 209. Not to be counted toward a major.

Miss Purnell

214 (2). THE 20TH CENTURY (3 hrs.)

An introduction to contemporary music through analysis of representative compositions. Prerequisite, 200 or 209. Not to be counted toward a major.

Mr. Tucker

300. DESIGN IN MUSIC (6 hrs.)

Detailed analysis of representative works illustrating the evolution of forms and structural procedures in the music of the 17th, 18th, and 19th centuries. Main emphasis on the period from Bach through Beethoven. Prerequisite, 200 or 201. Not open to students who have taken or are taking 301.

Mr. Hinners, Miss Purnell

301. COUNTERPOINT (6 hrs.)

The principles of two- and three-part writing. Composition in small forms. Analysis. Prerequisite, 201. Two periods a week with a third at the pleasure of the instructor. *Mr. LaRue*

305 (1). THE 16TH CENTURY (3 hrs.)

A study of the musical traditions associated with the Renaissance. Open to juniors and seniors who have completed 200 or 201. *Miss Purnell*

306 (1). THE 17TH CENTURY (3 hrs.)

Studies in baroque style. The *basso continuo* and *concertato* traditions. Rise of dramatic music. Open to juniors and seniors who have completed six hours of grade II. (Not given in 1956-57.)

307 (2). THE OPERA (3 hrs.)

A study of operatic forms, styles, and traditions from the time of Mozart to the present. Open to juniors and seniors who have completed six hours of grade II. *Mr. Herrmann*

309 (2). BACH (3 hrs.)

The style of J. S. Bach and its place in the history of music. Analysis of selected vocal and instrumental works. Open to juniors and seniors who have completed 200 and either 201 or 300 *Mr. Lamb*

310. ADVANCED HARMONY (6 hrs.)

Dominant sevenths, complete and incomplete dominant ninths, the augmented sixth chords and secondary sevenths. Ear training and advanced analysis. Prerequisite, 201. *Mr. Hinners*

318 (1). SEMINAR: BEETHOVEN (3 hrs.)

The development of the style of Beethoven to its culmination in the *Ninth Symphony,* the *Missa Solemnis,* and the last quartets. Open to juniors and seniors who have completed 200 and either 201 or 300. *Mr. Hinners*

319 (2). THE 19TH CENTURY (3 hrs.)

A study of the principal styles of the romantic period. Open to juniors and seniors who have completed 200 and either 201 or 300. One three-period class a week. (Not offered in 1956-57.) *Mr. Lamb*

325 (2). SEMINAR: STRAVINSKY (3 hrs.)

A study of the more important works and of their place in the music of the first half of the twentieth century. Open to juniors and seniors who have completed 200 or 201. *Mr. Lamb*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

On consultation with the department, properly qualified students may arrange for directed study in theory, orchestration, composition, or the history of music.

PRACTICAL MUSIC (INSTRUMENTAL AND VOCAL LESSONS)*

Instruction is provided in piano, organ, violin, violoncello, and voice, and arrangements may be made for private instruction in other instruments. Though no academic credit is given for such study, the department strongly recommends it as a complement to the course work in music. Students in piano who wish to do so may supplement their private lessons with group study which is available to them without additional charge as part of the piano course. Advanced students of string instruments or piano are eligible, also without additional charge, for group instruction in the performance of chamber music.

Candidates for the B.A. degree may take practical music provided they take or have already taken a course in the theory of music. Courses in the literature of music may serve as corequisites or prerequisites to practical music for students who pass a qualifying test in music fundamentals. Practical music is an elective, and students wishing to take it should notify the department in accordance with the procedure required for the election of an academic course.

Instruction in practical music is available to graduates of Wellesley College and to residents of the town of Wellesley by special arrangement.

Practical music study is normally undertaken on a yearly basis, though with the permission of the chairman of the department it may be elected for a single semester only. Students whose work proves unsatisfactory may be required to discontinue their lessons.

The College subscribes for eight seats in the Saturday series of the Boston Symphony Orchestra. Tickets for these concerts are available at cost, and students taking music courses are given preference in the use of them.

DIRECTIONS FOR ELECTION

For a 24 hour major, the following courses are required: 101, 200, 300, 305, 325.

For a 30 hour major, one of the following sequences is required:

(*a*) 101, 200, 300, 305, 325, and six hours from among the following: 201, 309, 318, 323.

(*b*) 200, 201, 301, 305, 310, 325 (101 prerequisite; those taking this sequence are strongly advised to elect six hours of additional grade III courses in the literature of music).

* Students who elect practical music are charged at the rate of $100.00 for a half-hour lesson per week throughout the year. The charge for the use of a practice studio is $20.00 per year for one period daily. The charge for a daily period of organ practice is $25.00. Practical music fees are payable in advance by semesters, and are not subject to return or reduction except upon recommendation of both the Dean of Students and the department chairman.

Sequence (*b*) is recommended to students interested in an intensive study of the techical aspects of music. Students preparing for graduate study, teaching, or other professional work in music should take this sequence.

Suggested correlative subjects for students majoring in music: European history, literature, art.

A knowledge of German, French, Italian, and Latin is, in the order named, important for students of music.

PRELIMINARY TEST IN FUNDAMENTALS

In the fall prior to the opening of classes, the department requires all students who elect a first course in music other than 103 to take a short test in fundamentals. The results of this test will be used as a basis for placement in sections of 101 and to admit students of sufficient advancement to grade II courses.

PHILOSOPHY

Professor: MARY LOWELL COOLIDGE, PH.D.
Associate Professor: VIRGINIA ONDERDONK, B.A. (Chairman)
Assistant Professors: ELLEN STONE HARING, M.A.; NATHANIEL WALKER ROE, PH.D.
Instructor: LILLIAN WOODWORTH AIKEN, PH.D.

101 (1), (2). INTRODUCTION TO CLASSICAL PHILOSOPHY (3 hrs.)

A study of the writings of Plato and Aristotle in order to investigate the nature of philosophic inquiry and to examine theories fundamental in Western thought; i.e., of the universe, man, society, good and evil. Open to all undergraduates. *Miss Coolidge, Mrs. Haring, Mr. Roe, Mrs. Aiken*

102 (2). INTRODUCTION TO MODERN PHILOSOPHY (3 hrs.)

A study of representative modern systems of thought beginning with that of Descartes and including some present-day thinkers, with emphasis on theories of knowledge and nature and on consequent views of man and society. Prerequisite, 101. *Miss Coolidge, Miss Onderdonk, Mrs. Haring, Mr. Roe, Mrs. Aiken*

201 (1). FURTHER STUDIES IN PLATO AND ARISTOTLE (3 hrs.)

A comparative study of the two decisive originators of Western philosophy, with emphasis upon their theories of knowledge and being. The reading will include the *Symposium, Meno,* and *Theatetus,* and selections from the *Analytics, Physics,* and *Metaphysics.* Prerequisite, 101. *Mrs. Haring*

203 (1). ÆSTHETICS (3 hrs.)

A study of philosophical problems concerning the nature of beauty, of artistic creation, and of standards in criticism. Some attention given to the relation of æsthetic to other values. Readings in such classical philosophers as Plato and in such contemporary writers as Croce and Santayana. Open to sophomores who have completed a course in philosophy and to juniors and seniors without prerequisite. (Not offered in 1956-57.) *Miss Coolidge*

204 (2). AMERICAN PHILOSOPHIES OF THE LAST ONE HUNDRED YEARS (3 hrs.)

Critical reading of representatives of idealism, realism, pragmatism, and logical positivism. Open to sophomores, juniors, and seniors who have taken 102 or 214. (Not offered in 1956-57.) *Mrs. Haring*

205 (1). PHILOSOPHY OF SCIENCE (3 hrs.)

A philosophic analysis of inductive scientific procedures such as classification, generalization, and verification, and of such related concepts as natural law, causality, fact, probability. Open to sophomores, juniors, and seniors who have taken 102 or 214. Open by permission to majors in science. (Not given in 1956-57.) *Mr. Roe, Miss Onderdonk*

206 (1), (2). CONFLICTS IN MODERN ETHICAL THOUGHT (3 hrs.)

Some of the ethical dilemmas presented by current ideologies will be taken as the point of departure for a study which will include systematic analysis of some modern ethical systems. Open to freshmen and sophomores who have completed a course in philosophy and to juniors and seniors without prerequisite. *Miss Coolidge, Miss Onderdonk, Mr. Roe*

211 (1). PHILOSOPHY OF RELIGION (3 hrs.)

A brief study from various points of view of the religious consciousness of different peoples. Discussion of philosophical problems involved in such a study. Open to juniors and seniors. *Miss Coolidge*

214. STUDIES IN THE DEVELOPMENT OF MODERN PHILOSOPHY (6 hrs.)

A study of important European philosophies from Descartes to Nietzsche designed to give students a knowledge of the chief philosophical systems and to provide some philosophical background for the understanding of related movements in literature and the natural and social sciences. Open to sophomores who have completed a course in philosophy, and to juniors and seniors without prerequisite. Not open to students who have taken 301.

Miss Coolidge, Miss Onderdonk, Mr. Roe

216 (1). FUNDAMENTAL PRINCIPLES OF LOGIC (3 hrs.)

A study of the forms of valid reasoning with emphasis on the analysis and symbolic formulation of ordinary English sentences and the deduction of simple conclusions. Some discussion of such notions as *implication, proof, consistency, definition, postulate.* Open to sophomores who have completed a course in philosophy or mathematics, and to juniors and seniors without prerequisite. *Miss Onderdonk*

301 (1). BRITISH EMPIRICISM (3 hrs.)

Primary consideration of the writings of Locke, Berkeley, and Hume; some attention to other British empiricists. Open to students who have completed nine hours in philosophy including 102. Not open to students who have taken or are taking 214. (Not offered in 1956-57.) *Mr. Roe*

306 (2). ADVANCED LOGIC (3 hrs.)

A study of modern developments of logic including a discussion of the nature of a deductive system, the logic of classes, and the calculus of propositions. Prerequisite, 216. Two periods a week with a third at the pleasure of the instructor. *Miss Onderdonk*

311 (2). LEIBNIZ AND KANT (3 hrs.)

An intensive study of the philosophies of Leibniz and Kant. Open to juniors and seniors who have taken or are taking 214 and to students who have taken 102 and 301. *Mrs. Haring*

321 (1). SEMINAR: STUDIES IN RECENT PHILOSOPHY (3 hrs.)

Papers and discussions based on writings of representatives of idealism, realism, logical positivism. Prerequisite, 214 or 311. *Mr. Roe*

322 (2). SEMINAR: STUDIES IN RECENT PHILOSOPHY (3 hrs.)

Papers and discussions based on the writings of Bergson and Whitehead and representatives of pragmatism and existentialism. Prerequisite, 214 or 311. *Miss Coolidge*

323 (1). MEDIEVAL PHILOSOPHY (3 hrs.)

A study of medieval thought, emphasizing the works of Augustine and Thomas Aquinas. Prerequisite 202. (Not offered in 1956-57.) *Mrs. Haring*

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Open to seniors by permission.

DIRECTIONS FOR ELECTION

To meet the distribution requirement for a year's work in philosophy, students should elect 101 and either 102 or 206, or 214.

A 24 or 30 hour major in philosophy must include: for classical philosophy, 101, and 201 or 202; for modern philosophy before the present century, 214, or 102 and 301 and 311; for philosophy of the twentieth century, two semesters of work chosen from 204, 321, and 322.

All majors are strongly urged to take a course in psychology; and are advised that a knowledge of Greek or French or German language and literature is desirable. Those planning to do graduate work in philosophy are strongly urged to include 216 in their major and they are advised that some work in mathematics and physics is desirable.

PHYSICAL EDUCATION

Associate Professors: ELIZABETH BEALL, PH.D. (Chairman); KATHARINE FULLER WELLS, PH.D.; ELINOR MARIE SCHROEDER, PH.D.

Assistant Professor: MARION ISABEL COOK, M.A.

Instructors: JULIA MAY BROWN, M.ED.; JEANNE ELLEN SNODGRASS, M.A.; GWENDOLYN MAE STOSE, M.S.; MILDRED ELIZABETH DENDY; HERBERTA MARIE LUNDEGREN, M.ED.; WILHELMINA DESDA MCFEE, M.S.; MARJORIE M. HARRIS, M.S.

Registrar: MARION DOROTHY JAQUES, B.A.

Musician for the Dance: KATHRYN R. HODGSON.

The Department of Physical Education, through its program adapted to individual needs and abilities, aims to help each student to build up sufficient strength and vitality to meet the demands of a normally active life; to appreciate and practice fundamental health habits; to develop a normal carriage, a sense of rhythm, coordination and motor judgment; to be a cooperative and contributing participant in group activity; and to acquire skill and a lasting interest in wholesome forms of recreation.

Two hours a week of physical education activities are required for freshmen and sophomores. The activity program of each year is divided into four seasons: fall, winter (1), winter (2), spring.

Activity Requirement: The department requires that during their first two years at college students should take: (1) at least two seasons of individual sport (either the same or different sports); (2) at least one season of group activity (i.e. team sport, modern dance, synchronized swimming, or folk dance); (3) fundamentals of movement during winter (1) of the freshman year.

A student's choice of activity is subject to the approval of the department, on the basis of the results of the medical and physical examinations, and the student's previous experience. Courses in the technique of teaching sports or officiating may be substituted for part of the activity requirement. Prerequisite, skill, and permission of the instructor.

Posture Requirement: Every student is expected to attain a grade of at least C minus on her posture photograph. Failure to meet this requirement at the end of the second year of winter work will necessitate enrollment in course 125 until the standard is attained or until the end of the winter season of the senior year. The 122 winter grade will be withheld until this requirement is fulfilled.

121 and 122. ACTIVITIES FOR FRESHMEN AND SOPHOMORES

Choice of the following: *Fall:* Archery, canoeing, crew, diving, golf, hockey, modern dance, senior life saving (first semester sophomores only), swimming, tennis, volleyball, water safety instructor's course (three periods a week: first semester, sophomores only, second semester, freshmen and sophomores), technique of officiating in hockey. *Winter* (1): Freshmen: Fundamentals of movement. Sophomores: American and English Folk dance, badminton, basketball, fencing, modern dance, skiing, squash, swimming, synchronized swimming, technique of officiating in basketball, (winter 1-2), technique of teaching rhythmic activities for children, (winter 1-2). *Winter* (2): American and English folk dance, badminton, basketball, camp leadership (second semester), fencing, modern dance, skiing, squash, senior life saving (second semester), swimming, synchronized swimming, technique of teaching swimming (second semester), water safety instructor's course (three periods a week second semester). *Spring:* Archery, canoeing, crew, diving, golf, lacrosse, modern dance, swimming, tennis, volleyball, technique of teaching archery, canoeing, square dance, tennis. Required of freshmen and sophomores, two periods a week. Prerequisite for all courses in technique of teaching activities, basic skills in the activity selected and permission of the instructor. Permission of the class dean is required for the water safety instructor's course. *The Staff*

124 and 125. POSTURE AND BODY MECHANICS FOR FRESHMEN AND SOPHOMORES

Recommended for freshmen and sophomores whose orthopedic condition indicates the need of individually planned exercise. Two hours a week; sophomores: winter (1) or (2), freshmen: winter (2), with 121 and 122 fall and spring. *Miss Wells, Miss Dendy*

126. VOLUNTARY ACTIVITIES FOR ALL STUDENTS

Students may elect, with the permission of the department, any of the activities listed under 121 or 122. Open to all students and faculty. Two hours a week in the fall, winter, or spring seasons. *The Staff*

131 and 132. MODIFIED ACTIVITIES FOR FRESHMEN AND SOPHOMORES

Fall: Choice of archery, canoeing, golf, swimming, tennis, volleyball. *Winter:* (1): Fundamentals of movement, *winter* (2): Choice of American and English folk dance, badminton, fencing, swimming, and recreational activities. *Spring:*

Choice of archery, canoeing, golf, swimming, tennis, volleyball. Required of freshmen whose physical condition indicates the need of modified activities. Two hours a week. *Miss Schroeder and Staff*

200 (1). LEADERSHIP IN PLAY AND RECREATION (3 hrs.)

Growth and development of the child and adolescent; play in education. Selection and adaptation of play activities for different age periods. Principles and methods of teaching. Survey of field of recreation, social recreation programs for community groups. Prerequisite or corequisite, introductory course in education, psychology or sociology. *Miss Beall, Miss Cook*

DIRECTIONS FOR ELECTION

A student planning to assist in teaching in a summer camp, playground, social service agency or recreation centre is advised to consult the chairman of the department regarding the election of courses in camp leadership, the technique of teaching activities or officiating, the water safety instructor's course and course 200 (1), LEADERSHIP IN PLAY AND RECREATION.

PHYSICS

Professor: DOROTHY HEYWORTH, PH.D. (Chairman)
Associate Professor: JANET BROWN GUERNSEY, PH.D.
Assistant Professor: PHYLLIS JANE FLEMING, PH.D.
Assistant: DOROTHEA D DEB. GREENE, M.A.

101. ELEMENTARY PHYSICS (6 hrs.)

A course designed to give an intelligent understanding of man's physical environment and the everyday applications of the fundamental laws of mechanics, heat, electricity, sound and light. Open to students who do not offer physics for admission. Three periods of lecture and discussion with one three-period laboratory appointment. *Miss Heyworth, Miss Fleming, Mrs. Greene*

104. ELEMENTARY PHYSICS (6 hrs.)

The same topics as in course 101, but with greater emphasis upon the mathematical development of the subject. Open to students who do not offer physics for admission. Prerequisite, three admission units in mathematics. Three periods of lecture and discussion with one three-period laboratory appointment. *Miss Heyworth, Miss Fleming, Mrs. Greene*

105 (1). FUNDAMENTAL PRINCIPLES OF PHYSICS (3 hrs.)

Selected topics in mechanics; wave motion and its applications in sound and light; current electricity. Open to students who offer physics for admission. Three periods of lecture and discussion, with one three-period laboratory appointment. *Mrs. Guernsey*

106. AN INTRODUCTORY COURSE IN PHYSICAL SCIENCE (6 hrs.)

For description and prerequisite, see Interdepartmental 106. This course will, by special arrangement, serve as prerequisite for grade II courses in physics.

200 (2). MODERN PHYSICS (3 hrs.)

Introduction to the kinetic theory of gases. Waves and particles; atomic and nuclear structure. Optical and X-ray spectra; the periodic table of elements. Radioactive decay. Three periods of lecture and discussion with laboratory work. Open to students who have completed 101, 104, or 105, or who have passed an examination for exemption from 105. *Miss Fleming*

201 (1). ELECTRICITY (3 hrs.)

Direct and alternating current phenomena. Methods of measurement; general circuit theory. Open to students who have completed 101, 104, or 105, and, by permission, to sophomores, juniors, and seniors who pass an examination for exemption from 105. Additional prerequisite or corequisite, Mathematics 106 or 107. Three periods of lecture and discussion, with one three-period laboratory appointment. *Miss Fleming*

206 (2). ELECTRONICS (3 hrs.)

Fundamentals of electron flow in vacuum and gas tubes. The vacuum tube as a circuit element; application to power supplies, amplifiers, oscillators and modulators. Introduction to non-linear electronic devices. Prerequisite, 201. Three periods of lecture and discussion, with one three-period laboratory appointment. *Mrs. Guernsey*

301 (1). OPTICS (3 hrs.)

The wave theory and its application to the phenomena of interference, diffraction, double refraction, polarization, and dispersion; theory and use of optical instruments; nature of light sources. Open to juniors and seniors who have completed a course of grade II in physics, or a year course of grade I in physics and a year course of grade I in astronomy. Additional prerequisite or corequisite, Mathematics 106 or 107. Three periods of lecture and discussion with one three-period laboratory appointment. *Mrs. Guernsey*

303 (2). NUCLEAR PHYSICS (3 hrs.)

Static properties of atomic nuclei. Properties of charged particles, neutrons, and gamma rays; their interactions with matter. Natural and artificial radioactivity. Nuclear transmutation and fission. Open to students who have completed 202 or 200 and, by permission, to juniors and seniors. *Mrs. Guernsey*

304 (1).* ELECTROMAGNETIC THEORY (3 hrs.)

Fundamental theory of electric and magnetic fields, with an introduction to the methods of vector analysis; development of Maxwell's equations and the properties of electromagnetic waves and radiation. Prerequisite, 201 and Mathematics 202. *Miss Fleming*

307 (2). INTRODUCTION TO SPECTROSCOPY (3 hrs.)

Experimental study of optical spectra in emission and absorption; spectroscopic instruments, light sources, intensity measurements; application to qualitative and quantitative analysis; term analysis of atomic and molecular spectra. Explanation, on the basis of quantum theory, of the structure of spectra in relation to the structure of atoms and molecules. Prerequisite, 301 and 201 or

202. Two periods of lecture, one period of discussion, and one three-period laboratory appointment. (Not offered in 1956-57.) *Mrs. Guernsey*

308 (2).* MECHANICS AND THERMODYNAMICS (3 hrs.)

Mathematical treatment of fundamental principles of mechanics and thermodynamics. Prerequisite, 101 or 104 or 105 and Mathematics 202.

Miss Heyworth

309 (2). EXPERIMENTAL ATOMIC PHYSICS (3 hrs.)

Fundamental experiments such as the determination of the charge on the electron, the ratio of charge to mass of the electron, Planck's quantum constant, critical potentials: verification of photoelectric laws; X-ray and radioactivity measurements; experiments involving use of Geiger counters and cloud chamber. Prerequisite, 201, 202. Six periods of laboratory a week.

Miss Fleming

350. RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

The work will be under the direction of the member of the department in whose field the work lies. Opportunity for a series of experiments as well as for investigation of a single problem. Open to graduate students and, by permission, to juniors and seniors who have completed 18 hours in physics. The amount of work contemplated must be arranged with the department and indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

A major in physics should ordinarily include 201, 206, 301, 303, 304, and 308.

Mathematics 202 and a year of college chemistry are required for a major in physics. Attention is also called to courses in astronomy as appropriate for related work. A reading knowledge of German and French, while not required, is desirable.

Pre-medical students are referred to the requirements as given on page 30.

PLACEMENT AND EXEMPTION EXAMINATIONS

An examination for exemption from Physics 105 is offered to qualified students who present one admission unit in physics and also present an acceptable laboratory notebook when applying for the examination. Freshmen who pass this examination are eligible for Physics 200 in the freshman year. Sophomores, juniors, and seniors who pass this examination and also satisfy the mathematics requirement are eligible for Physics 201 or, by permission, 202.

Students who pass the exemption examination may count it as the equivalent of Physics 101 in the work for distribution.

POLITICAL SCIENCE

Professors: LOUISE OVERACKER, PH.D.; M. MARGARET BALL,[1] PH.D.
Associate Professors: OWEN SCOTT STRATTON, PH.D. (Chairman); ALONA ELIZABETH EVANS, PH.D.
Assistant Professor: PHILLIP LEONARD SIROTKIN, PH.D.
Instructors: PAMELA NICHOLSON WRINCH, PH.D.; DANTE LEE GERMINO, PH.D.

* Mathematics 303, if followed by Physics 304 or 308, may be counted toward a major in physics.

[1] Absent on leave.

100. INTRODUCTION TO POLITICAL SCIENCE (6 hrs.)

Fundamental political principles developed through a study of the governments of the United States, Great Britain, Soviet Russia, and other selected countries. Special emphasis upon the theory and functioning of democracy. Open to all undergraduates. By permission, either semester may be taken separately by seniors. *Miss Overacker, Mr. Stratton, Miss Evans, Mr. Sirotkin, Miss Wrinch, Mr. Germino*

201 (1). PUBLIC ADMINISTRATION (3 hrs.)

An analysis of the principles and political significance of public administration with illustrative material drawn from contemporary government practice. Open to students who have completed 100 and, by permission, to those who have completed or are taking another grade II course in the department. (Not offered in 1956-57.) *Mr. Stratton*

202 (1). POLITICAL PARTIES AND PRESSURE POLITICS (3 hrs.)

The nature and functions of parties and pressure groups; party organization; party machines and corruption; campaign funds; the problem of party responsibility. Emphasis upon trends in the United States, with some consideration of other democracies. Primarily for non-majors. Open to students who have completed 100 and, by permission, to those who have completed another grade II course in the department. Not open to students who have had, or are taking, 203. *Miss Overacker*

203. THE POLITICAL PROCESS (6 hrs.)

An analysis of political parties and pressure groups and of their relation to legislative, administrative, and judicial bodies in the shaping of public policy. Emphasis upon trends in the United States with some consideration of the political process in other democracies. Open to students who have completed 100. Not open to students who have taken or are taking 201 or 202. *Miss Overacker, Mr. Stratton*

208. INTERNATIONAL POLITICS (6 hrs.)

A study of contemporary world politics with special attention to international security and economic, social, and cultural cooperation; the League of Nations, the United Nations, and the Organization of American States; dependent areas and trusteeship. Open to students who have completed 100, or six hours in history, economics, sociology, or geography. *Miss Wrinch*

301 (1). INTERNATIONAL LAW (3 hrs.)

A study of the function of law in the international community; nature of international law, international entities, jurisdiction, and responsibility, law and force in the settlement of disputes; current problems in the development of the international legal system. Open to juniors and seniors who have completed 100 and a grade II course in political science, economics, history, or sociology; or 208. *Miss Evans*

303 (2). LAW AND THE ADMINISTRATION OF JUSTICE (3 hrs.)

The elements of law; development of common law principles and institutions; organization of English and American courts; civil and criminal procedure in the

United States; the growth of administrative justice. Open to juniors and seniors who have completed 100 and a grade II course in political science, economics, history, or sociology. *Mr. Sirotkin*

304 (1). CONSTITUTIONAL LAW (3 hrs.)

The Constitution of the United States as interpreted by the Supreme Court, and the Supreme Court's role in the political process; the President's powers, interstate commerce, due process, the police power, protection of civil rights and liberties. Open to juniors and seniors who have completed 100 and a grade II course in political science, economics, history, or sociology. *Mr. Sirotkin*

305 (2). STATE AND LOCAL GOVERNMENT (3 hrs.)

A study of the politics and government of representative states and local units and of the relationship of state and local units to each other and to the national government. Students will be expected to make a first-hand study of some state or local problem. Open to juniors and seniors who have taken 100 and 202 or 203 and, by permission, to students who have taken 100 and a relevant grade II or grade III course in economics, history, or sociology. *Mr. Stratton*

306 (1). GOVERNMENT AND POLITICS OF ASIA (3 hrs.)

A study of the theory and practice of government in India, Japan, China, and other selected Asian countries, emphasizing the struggle for political unity, national development, and international status. Open to juniors and seniors who have had 100, 208, or History 225. *Miss Evans*

307 (2).° GOVERNMENT AND POLITICS OF LATIN AMERICA (3 hrs.)

A study of the theory and practice of government in Argentina, Brazil, Chile, Mexico, and other selected Latin American countries, emphasizing problems of leadership, political development, and factors underlying policy formation. Open to juniors and seniors who have completed 100, 208, History 214, Sociology 204, or who are majoring in Spanish. (Not offered in 1956-57.) *Miss Evans*

314 (2). ADVANCED COMPARATIVE GOVERNMENT (3 hrs.)

A functional approach to the study of government, treating such problems as statism, dynamics of power, constitutional democracy and dictatorship. Open to juniors and seniors who have completed 100 and a grade II course in political science, economics, history, or sociology. *Miss Evans*

315 (2). INTERNATIONAL POLITICS AND UNITED STATES FOREIGN POLICY (3 hrs.)

Intensive study of selected current problems of international politics, with emphasis upon the nature and background of each, possible solutions, and alternative policies for the United States. Open to a limited number of juniors and seniors who have taken 208 or History 202 and 307. *Miss Wrinch*

° Offered in alternate years.

316 (1). HISTORY OF SOCIAL AND POLITICAL THOUGHT (3 hrs.)

For description and prerequisite, see Sociology 316 (1).

318 (1), (2). MODERN POLITICAL THEORY (3 hrs.)

A study of the main currents in political theory of the 19th and 20th centuries, including liberalism, idealism, socialism, communism, and fascism. Open to juniors and seniors who have taken 316, or 100 and a grade II course in history, philosophy, or political science. *Mr. Germino*

322 (2). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source material. Topic for 1956-57: Political behavior, with particular emphasis on the presidential election of 1956. Open by permission to a limited number of juniors and seniors majoring in political science or related fields who have completed 12 hours in political science. *Mr. Sirotkin*

323 (1). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source material. Topic for the year to be announced before the spring recess. Prerequisite, same as for 322. (Not offered in 1956-57.)

324 (1). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Emphasis upon use of source material. Topic for 1956-57: Contemporary political leaders and foreign policy: the objectives and strategy of public figures of varying nationality. Open, by permission, to a limited number of juniors and seniors majoring in political science or related fields who have completed 12 hours in political science. *Miss Wrinch*

350 (1), (2). RESEARCH OR INDEPENDENT STUDY (3 hrs.)

The department is prepared to offer a course of directed reading to a limited number of students. Open, by permission, to seniors who have completed six hours of grade III in political science.

DIRECTIONS FOR ELECTION

Political Science 100 or the equivalent is required of all majors; 203 and 208 are recommended. Students planning to major in political science should elect 100 before taking 208.

Attention is called to the possibility of emphasizing international relations or area studies in the field of concentration.

PLACEMENT AND EXEMPTION EXAMINATIONS

A. American Government. Open to any student who considers herself qualified, either by work in preparatory school or by individual reading and study. The examination will cover approximately the material studied in the second semester of Political Science 100. Students whose preparatory school program has included a half-year course in American government, a year course in American history and government, or a year in the social studies, might be in a position to pass such an examination satisfactorily. This examination would exempt students from *three hours* of the distribution requirements in Group II.

B. An examination covering substantially the material of the first semester's

work in Political Science 100 (the governments of Britain, France, and the U.S.S.R.). Open to any student who considers herself qualified, either by preparatory school work or individual reading and study. This examination would exempt students from *three hours* of the distribution requirement in Group II.

Students passing both examinations are entitled to enter 203 or 208. Students passing exemption examination A, and not intending to major in the department, may enter 202.

PSYCHOLOGY

Professors: MICHAEL JACOB ZIGLER, PH.D.; THELMA GORFINKLE ALPER, PH.D.
Associate Professor: EDITH BRANDT MALLORY, PH.D. (Chairman)
Assistant Professors: IRENE RITA PIERCE, PH.D.; CLAIRE ZIMMERMAN, PH.D.; WILLIAM BLEECKER COATE, PH.D.
Graduate Assistants: MARJORIE HANSON KLEIN, B.A.; BARBARA LOUISE ALTIERI, B.A.

102. INTRODUCTION TO PSYCHOLOGY (6 hrs.)

An introduction to the objective study of behavior. Topics include: perception, motivation, learning, measurement of ability, child development, social behavior. Open to sophomores, juniors and seniors who have not taken 101 or 103, and, by permission of the Dean of Freshmen, to freshmen. *Mr. Zigler, Mrs. Alper, Mrs. Mallory, Miss Pierce, Miss Zimmerman, Mr. Coate*

201 (1). PSYCHOLOGICAL STATISTICS (3 hrs.)

Training in the use of statistical techniques as they have been especially adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing in the student an understanding of the possibilities and limitations of the use of statistics in psychology. Prerequisite, 101, 102 or 103. *Miss Zimmerman*

207 (2). CHILD PSYCHOLOGY (3 hrs.)

The psychological development of normal children, with special emphasis on the psychological significance of various patterns of parent-child relationships and current child-training theories. Prerequisite, 101, 102, or 103. *Mrs. Alper*

209 (1), (2). EXPERIMENTAL PSYCHOLOGY: LABORATORY COURSE (3 hrs.)

Typical experiments in the main fields of psychological investigation. Laboratory work supplemented by occasional lectures. Training in psychological method. Prerequisite, six hours of psychology. *Mr. Zigler, Mrs. Mallory*

210 (1). SOCIAL PSYCHOLOGY (3 hrs.)

A survey of the effects of social phenomena on behavior. Consideration of such problems as the forming of attitudes, prejudice, and social learning. Prerequisite: 101, 102 or 103. *Miss Pierce*

213 (2). PHYSIOLOGICAL PSYCHOLOGY (3 hrs.)

A survey of the existing information concerning mechanisms basic to behavior. Prerequisite, 101, 102 or 103. *Mr. Zigler*

219 (1). THE PSYCHOLOGY OF LEARNING (3 hrs.)

An examination and evaluation of current theories of learning, with special attention to those centering about the concepts of the conditioned reaction, trial and error, and insight. Emphasis on recent studies of the psychology of learning. Laboratory experiments on human and animal subjects. Prerequisite, 101, 102 or 103. *Mr. Coate*

220 (2). COMPARATIVE PSYCHOLOGY (3 hrs.)

An examination of recent conceptual trends in psychology as dependent on developments in the field of animal behavior. Laboratory projects in selected problems. Prerequisite, 101, 102 or 103. Two lectures and two hours of laboratory to be arranged. *Mr. Coate*

224 (1). SYSTEMS OF PSYCHOLOGY (3 hrs.)

Critical analysis of systems of psychology with special attention to their treatment of particular problems, such as measurement of concepts, extent to which the theories account for empirical data and ability to predict. Emphasis on theories of thinking and problem solving. Prerequisite, 101, 102 or 103. *Miss Zimmerman*

301 (1). HISTORY OF EXPERIMENTAL PSYCHOLOGY (3 hrs.)

A study of psychological trends—their inception, growth, and bearing upon modern psychology. Open to juniors and seniors who have completed or are taking two grade II courses in psychology. (Not given in 1956-57.) *Mr. Zigler*

307 (1). THE DEVELOPMENT OF PERSONALITY (3 hrs.)

A study of the determinants of normal personality development with emphasis on early childhood. The contributions of the major personality theorists. Use of the case history approach to the study of personality. Prerequisite, 207. *Mrs. Alper*

309 (2). ABNORMAL PSYCHOLOGY (3 hrs.)

The psychology of abnormal behavior studied in such a way as to throw light on the psychology of normal behavior. A study of theories offered in explanation of neurotic and psychotic behavior as well as of techniques of psychotherapy based on these theories. Open to juniors and seniors who have completed 101 or 103 and have completed, or are taking, at least six hours of work above grade I in one of the following: psychology, sociology, zoology and physiology. Also open to seniors by permission of the instructor. *Miss Pierce*

310 (2). ADVANCED SOCIAL PSYCHOLOGY (3 hrs.)

Selected problems in the area of social psychology. Emphasis on research projects. Prerequisite, 210. Also open to seniors by permission of the instructor. *Miss Zimmerman*

313 (1). PSYCHOLOGICAL TESTING (3 hrs.)

Principles of psychological measurement. Individual differences in intelligence and personality. Survey of methods by which psychologists have studied these differences. Examination of selected tests. Some practice in testing. Open to students who have completed 209 or 201. *Mrs. Mallory*

314 (2). PSYCHOLOGICAL TESTS AND MEASUREMENT. ADVANCED COURSE (3 hrs.)

The functions of psychological measurement in counseling and placement. Special study of tests used in clinical, vocational and educational fields. Open to students who have completed 313. *Mrs. Mallory*

317 (2). CHILD PSYCHOLOGY. ADVANCED COURSE (3 hrs.)

Consideration of some of the major research methods currently in use in the field of child psychology. Open, by permission, to graduate students, junior and senior majors and specially qualified non-majors. *Mrs. Alper*

323 (2). SEMINAR. PERSONALITY AS STUDIED BY PROJECTIVE TECHNIQUES AND RELATED METHODS (3 hrs.)

An introduction to current methods of studying personal drives and adjustment, with special emphasis on projective tests and related techniques. Open by permission to graduate students, to senior majors, and to specially qualified non-majors. *Mrs. Mallory*

324 (2). ADVANCED EXPERIMENTAL PSYCHOLOGY (3 hrs.)

Experimental problems in a specified area of psychology. Emphasis on hypothesis formation, experimental design and methods of collecting, analyzing and interpreting data. For 1957-58: thinking and problem solving. Prerequisite, 209 and 224. (Not given in 1956-57.) *Miss Pierce*

326 (2). SEMINAR. APPLIED EXPERIMENTAL PSYCHOLOGY (3 hrs.)

Current problems in applied experimental psychology. Prerequisite, same as for 325. *Mr. Zigler*

350 (1), (2). RESEARCH OR INDEPENDENT STUDY (2 to 6 hrs.)

Open to graduate students and seniors by permission.

DIRECTIONS FOR ELECTION

A major in psychology must include 102 and 209. Course 350 may not be included in a minimum major of 24 hours.

Courses supplementary to a psychology major may include courses in education, history of science, philosophy of science, mathematics, political science, sociology, physics, physiology, and zoology.

A reading knowledge of French and German is desirable for students majoring in psychology.

RUSSIAN

Associate Professor: WACLAW JEDRZEJEWICZ (Chairman)

100. ELEMENTARY COURSE (6 hrs.)

Open to all students. *Mr. Jedrzejewicz*

200. INTERMEDIATE COURSE (6 hrs.)

Prerequisite, 100. *Mr. Jedrzejewicz*

201 (1). LITERATURE IN TRANSLATION: ROMANTICISM AND REALISM (3 hrs.)

Russian literature from the beginning to the middle of the 19th century with emphasis upon the works of Pushkin, Lermontov, Gogol and Turgenev. Some comparative study of works of Polish, Czech and Serb writers. Open to juniors and seniors. *Mr. Jedrzejewicz*

202 (2). LITERATURE IN TRANSLATION: MODERN PERIOD (3 hrs.)

Russian literature from the second part of the 19th century and the 20th century with emphasis upon the works of Dostoyevsky, Tolstoy, Chekhov and Gorky. The Soviet writers. Some comparative study of the works of Polish and Czech writers. Open to juniors and seniors. *Mr. Jedrzejewicz*

300 (1), (2). INDIVIDUAL STUDY (3 or 6 hrs.)

Advanced language exercises and reading suited to the needs of the student. Open by permission to students who have completed 200. *Mr. Jedrzejewicz*

DIRECTIONS FOR ELECTION

The College does not offer a major in Russian language and literature.

Courses 201 and 202 may be elected to fulfill the literature requirement in Group I. Students registering for 201 should read during the preceding summer Gogol's *Dead Souls* and Turgenev's *Fathers and Sons,* and for 202, Dostoyevsky's *Crime and Punishment* and Tolstoi's *War and Peace.*

SOCIOLOGY AND ANTHROPOLOGY

Professor: LELAND HAMILTON JENKS, PH.D.

Associate Professors: BARTLETT HICKS STOODLEY, PH.D. (Chairman); ALLAN WARDELL EISTER, PH.D.

Instructors: ROSE LAUB COSER, M.A.; RICHARD HARRISON ROBBINS, M.A.; LEILA ALINE SUSSMANN, M.A.

102 (1), (2). INTRODUCTORY SOCIOLOGY (3 hrs.)

An introduction to the sociological way of looking at society. Contemporary social situations in terms of culture patterns, social structure, and social relations. Open to all undergraduates. Sections for freshmen are planned.

Mr. Jenks, Mr. Stoodley, Mr. Eister, Mr. Robbins, Miss Sussmann

103 (2). AMERICAN SOCIETY (3 hrs.)

Sociological study of the population characteristics, institutions, group relations, community and class structure of the United States. Prerequisite, 102.

Mr. Jenks, Mr. Stoodley, Mr. Eister, Mr. Robbins, Miss Sussmann

104 (2). GENERAL ANTHROPOLOGY (3 hrs.)

An introduction to man's place in nature, his physical history and physical varieties; the nature of culture; some major phases in the growth and spread of cultures; the relation between culture and personality. Open to all undergraduates who have completed 102 and, by permission, to others *Mr. Robbins*

202 (1). THE HUMAN GROUP (3 hrs.)

Analysis of social interaction in small informal groups with emphasis upon modes of inquiry and the place of primary association in social life and per-

sonality formation. Study of informal work groups, families, play groups, cliques, and gangs. Opportunity to employ methods of small-group observation. Open to sophomores, juniors, and seniors who have taken six hours in the department. *Mr. Eister*

204 (2).* SOCIAL SYSTEMS IN LATIN AMERICA (3 hrs.)

Factors and processes in the development of society and culture in selected Latin-American countries. Emphasis upon population, standards of living, land and labor systems, class and occupational structure, rural-urban variations, and dominant culture themes. Prerequisite, same as for 202. *Mr. Jenks*

206 (1). APPLIED ANTHROPOLOGY (3 hrs.)

The use of anthropological theory and techniques in the study of such contemporary social problems as the administration of dependent peoples and other situations involving directed cultural change. Open to sophomores, juniors, and seniors who have completed one course in the department, or Political Science 100, or Economics 101. *Mr. Robbins*

208 (2). SOCIAL WELFARE (3 hrs.)

The organization, technical development, and professionalization of social work. Its functions in the community. Field study of social agencies. Prerequisite same as for 202. *Mr. Eister*

210 (1). RACIAL AND ETHNIC MINORITIES IN THE UNITED STATES (3 hrs.)

An analysis of the problems of racial and ethnic groups in American society. Systematic study of adjustment mechanisms of selected racial, religious and immigrant minorities, with special emphasis on Negro-white relations. Field work problems. Prerequisite, same as for 202. *Mr. Robbins*

211 (1), (2). INTRODUCTION TO SOCIAL AND ECONOMIC STATISTICS (3 hrs.)

For description and prerequisite, see Economics 211. This course, although it may be included in the major, is not to be counted among grade II prerequisites for later election.

212 (1). SOCIOLOGY OF RELIGIOUS INSTITUTIONS (3 hrs.)

Social factors in the origin and development of religious conceptions and practices with special reference to preliterate societies. Types of religious leaders and leadership and of religious organizations. Functional relationships between religious systems and other parts of the culture and social organization of selected societies. Open to juniors and seniors who have completed six hours in the department. *Mr. Eister*

214 (1). POPULATION (3 hrs.)

Population size, distribution, composition, movements, and their social, political, and economic implications: their relations to resources, technology, and organization. Analysis of policies relating to such population problems as migration, war, birth control. Open to sophomores, juniors, and seniors who have completed six hours in the department or Economics 101.

Miss Sussmann

* Offered in alternate years.

215 (2). METHODS OF SOCIAL RESEARCH (3 hrs.)

An introductory study of the techniques and methods employed by sociologists in the collection and analysis of data and in interpreting the results of inquiry. Laboratory exercises. Open to sophomores who have completed nine hours and juniors and seniors who have completed any course in the department, or Psychology 210. *Miss Sussmann*

222 (2). THE FAMILY (3 hrs.)

A study of the American family as a primary group and as a social institution. Impact of the family on its individual members and its relation to the community. Comparative analysis of family structures in several cultures and of the factors affecting maintenance or change. Open to sophomores, juniors, and seniors who have completed six hours in the department. *Mrs. Coser*

302 (1). SOCIAL AND CULTURAL CHANGE (3 hrs.)

Processes of change in human behavior, culture, and social structure in historical perspective. Theories of social change such as those of Condorcet, Marx, Weber, Ogburn, Toynbee. The bearing of such theories upon specific cases of technological, ideological and structural change. Open to seniors who have completed 102 and are majoring in any department in Group II. *Mrs. Coser*

303 (2). THE MODERN COMMUNITY (3 hrs.)

The formation of modern cities, their growth and structural development. The urban way of life and its problems. The emerging metropolitan community. Open to juniors and seniors who have completed one grade II course in the department, or Economics 210 or 301. *Mr. Eister*

305 (1).* THE SOCIOLOGY OF OCCUPATIONS (3 hrs.)

Occupational roles in various types of societies. Occupation and social stratification. Changing social requirements and motivations for business, professional and white-collar roles. Open to juniors and seniors who have completed 205 or 208. *Mr. Jenks*

308 (2). LABOR ECONOMICS (3 hrs.)

For description and prerequisite, see Economics 308.

309 (2). GROUP ORGANIZATION (3 hrs.)

Rise and operation of large-scale formal organizations such as industrial establishments, labor unions, hospitals; analysis of them in terms of roles, authority, morale, etc. Open to juniors and seniors who have completed either six hours in the department or Economics 210 or Political Science 203. (Not given in 1956-57.) *Mrs. Coser*

312 (2). PUBLIC OPINION AND MASS MEDIA OF COMMUNICATION (3 hrs.)

An analysis of mass media of communication such as newspapers, radio, and television. Their relation to and effect upon modern American society. Emphasis on the techniques of research in this field. Research projects will be developed. Open to juniors and seniors who have completed any course of grade II in the department. *Mr. Stoodley*

* Offered in alternate years.

316 (1). HISTORY OF SOCIAL AND POLITICAL THOUGHT (3 hrs.)

Outstanding trends of thought from the Greeks to modern times, as reflected in the writings of such social and political philosophers as Plato, Aristotle, Augustine, Machiavelli, Locke, and Rousseau. Open to juniors and seniors who have completed or are taking nine hours in the department, or Political Science 100 and a grade II course in political science, sociology and anthropology, history, economics, or philosophy. *Mr. Jenks*

319 (2). MODERN SOCIOLOGICAL THEORY (3 hrs.)

Assumptions relevant to current sociological theory. Development of sociology as a field. Examination of the systematic theories of such sociologists as Marx, Durkheim, Max Weber, and Parsons. Open to seniors who have completed six hours of grade II in the department or 316. *Mr. Jenks*

323 (1). CRIMINOLOGY (3 hrs.)

Crime and the social structure. Criminals—their motivation and treatment. Field study of agencies dealing with criminals. Open to seniors who have completed a grade II course in the department or who have taken or are taking Psychology 309. *Mr. Stoodley*

350 (1), (2). RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to juniors and seniors by permission.

DIRECTIONS FOR ELECTION

All members of the staff are prepared to confer with students with respect to sequences of courses in sociology and closely related fields. The department will approve minimum majors where supported by a strong concentration of closely related courses. Majors are advised to take two of the following courses or course sequences: Economics 101, Political Science 100, Psychology 101 and 207, as well as work for distribution, early in their programs. All majors should include at least one cross-cultural course, such as one in anthropology, and at least one course in theory.

SPANISH

Professor: JORGE GUILLÉN, DOCTOR EN LETRAS, CATEDRÁTICO DE UNIVERSIDAD
Associate Professors: JUSTINA RUIZ-DE-CONDE, LIC. EN DERECHO, PH.D (Chairman); CONCHA BRETÓN, DOCTORA EN LETRAS
Instructor: IDA BLANCHE DE PUY, M.LITT.

All courses of the department are conducted in Spanish; oral expression is stressed.

Attention is called to the opportunities for residence in the Spanish Corridor of Wellesley College, and for study in the summer school of Middlebury College. Qualified students may also take advantage of the Junior Year in Spain.

101. ELEMENTARY COURSE (6 hrs.)

(*a*) Grammar, reading, composition, dictation, practical conversation on everyday life, short lectures in Spanish. Four class periods and five hours of preparation a week. (*b*) Subject matter the same as in (*a*). The teaching method stresses the intensive oral approach (mimicry-memorizing). Five class periods and four

hours of preparation a week. Open to students who do not present Spanish for admission. Students electing this course should indicate choice of (*a*) or (*b*).
Miss Bretón, Miss De Puy

102. ASPECTS OF SPANISH AND SPANISH AMERICAN LIFE (6 hrs.)

The object of the course is twofold: linguistic and cultural. Grammar, reading from modern authors with emphasis on vocabulary building for oral and written expression. Three class periods and one group conference. Prerequisite, two units in Spanish for admission or 101. *Miss Bretón, Miss De Puy*

104. PROSE AND POETRY OF THE NINETEENTH CENTURY (6 hrs.)

A study of the literary trends of this period and of some outstanding works. Constant practice in the written and spoken language. Prerequisite, three units in Spanish for admission or, on recommendation of the department, 101.
Mrs. Ruiz-de-Conde

203 (1). COMPOSITION (3 hrs.)

Study of grammar and vocabulary and practice in writing idiomatic Spanish. For students who already have a fundamental knowledge of Spanish grammar. Prerequisite, 102 or 104. *Miss Bretón*

204. A HALF CENTURY OF MODERN SPANISH LITERATURE (6 hrs.)

From "la Generación del '98" to the present. Special study of the works of Unamuno, Valle Inclán, Azorín, Antonio Machado, Juan Ramón Jiménez, Ortega y Gasset, García Lorca. Prerequisite, 104, or by permission 102. By permission either semester may be counted as a semester course.
First semester, Mrs. Ruiz-de-Conde; second semester, Mr. Guillén

206. MAIN CURRENTS OF SPANISH LITERATURE (6 hrs.)

The study of outstanding works and themes which express the Spanish conception of man and the world. Prose and poetry chosen from significant periods of Spanish literature. Prerequisite, 102 or 104. *Mr. Guillén*

207 (2). THE CIVILIZATION OF MEXICO (3 hrs.)

A presentation of Mexican civilization: the literature of the country, the other arts, together with the economic and sociological factors which have produced in Mexico a blend of Spanish and Indian institutions and ideology. Special attention to the contemporary period. Prerequisite, 104 or by permission 102.
Miss De Puy

208 (2). CONVERSATION (3 hrs.)

Intensive practice in the spoken language to gain fluency, to improve pronunciation and intonation, and to gain assurance in the accurate use of the language. Prerequisite, 102 or 104. *Mrs. Ruiz-de-Conde*

301 (1). DRAMA OF THE SEVENTEENTH CENTURY (3 hrs.)

The characteristics of the Spanish drama of the Golden Age. Analysis of Spain's ideals of this period as revealed in the drama. Representative masterpieces of the great dramatists: Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón. Open to juniors and seniors who have completed six hours of grade II, three of which should be in literature. (Not given in 1956-57.) *Miss Bretón*

302 (1). CERVANTES (3 hrs.)

Study of Cervantes and his work, representing the culmination of the novel in Spain and the opening of a new era in the history of the European novel. Reading of *Novelas Ejemplares;* analysis and discussion of *Don Quijote.* Open to juniors and seniors who have completed six hours of grade II, three of which should be in literature. *Mr. Guillén*

303. SEMINAR. SPANISH LITERATURE FROM 1100 TO 1500 (6 hrs.)

Study of *El Cantar de Mio Cid, El Libro de buen amor, La Celestina.* Open to graduate students and to approved seniors who have completed at least one course of grade III. (Not offered in 1956-57.) *Mr. Guillén*

304. SEMINAR. SPANISH POETRY (6 hrs.)

A study of the principal movements and outstanding poets. Open to graduate students and approved seniors who have completed at least one course of grade III. (Not given in 1956-57.) *Mr. Guillén*

305. THE SPANISH NOVEL OF THE GOLDEN AGE (6 hrs.)

The development of the Spanish novel in the 16th and 17th centuries in its different types and tendencies. Open to graduate students and approved seniors who have completed 302. (Not offered in 1956-57.) *Mrs. Ruiz-de-Conde*

306. MODERN SPANISH AMERICAN LITERATURE (6 hrs.)

Reading and discussion of representative works in prose and poetry with a special study of the main literary currents, their historical background and their relation to the problems of the present day. Open to juniors and seniors who have completed 206, or 204 and 207, or by special permission. History 214 taken prior to or with Spanish 306 is strongly recommended. *Mr. Guillén*

309 (2). SEMINAR. SPANISH CIVILIZATION (3 hrs.)

The development of political, social and artistic life in Spain. Parallel readings and papers will be assigned. Prerequisite, 204 or 206. (Not given in 1956-57.) *Miss Bréton*

310 (2). COMPOSITION (3 hrs.)

Advanced composition based on the reading of articles from current newspapers and magazines. Prerequisite, six hours of grade II. (Not given in 1956-57.) *Miss Bretón*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open, by permission, to graduate students and to approved seniors and juniors who have completed one full grade III course in Spanish and are taking another full grade III course.

DIRECTIONS FOR ELECTION

To fulfill the literature requirement in Group I, students may elect courses 104, 204, 206, and grade III courses (except 310).

Course 101 counts for the degree but does not count toward a major.

Students majoring in Spanish should ordinarily include 203, 205, 204 or 206, 301, 302, 309 and six additional hours of grade III work in literature, and History 214.

Related courses in art, French, geography, history, Italian, philosophy, political science, sociology are suggested.

Students interested in Latin American studies should consult the chairman to plan a major with emphasis on this area and with appropriate related work in geography, history, political science or sociology.

SPEECH

Assistant Professor: VIRGINIA ROGERS MILLER, M.A. (Chairman)
Instructor: DORIS ISABELLE PAYNE, M.F.A.

Lecturer: PAUL ROGERS BARSTOW, M.F.A. (Director of the Theatre)

Certain limitations are placed upon the hours in this department. Not more than 12 hours of grade II work may be counted within the minimum number of hours for the B.A. degree, and three to six hours of grade I work, with no duplication permitted at the grade I level. Students may elect for credit either 101, 102 or 103 and 12 hours of grade II work.

All freshmen and transfer students are required to attend an individual conference at which a diagnostic test and an analysis of the student's speech and voice will be made. For those who would benefit by instruction, the most helpful course or courses will be suggested. For those who have voice or speech difficulties, individual or small group conferences will be arranged, where the cause and correction of these difficulties will be discussed and individual remedial practice assigned. A second test will determine whether the student: (a) has fulfilled her degree requirement in speech; (b) should continue the conferences; (c) should be advised to elect a fundamentals course in speech; or (d) may elect advanced courses without prerequisites.

SPEECH CONFERENCE (No credit)
Mrs. Miller, Miss Payne

101. FUNDAMENTALS OF SPEECH: YEAR COURSE (6 hrs.)

Analysis of individual problems in oral communication through lecture, discussion, oral participation. Attention given to voice and articulation through oral interpretation of prose and poetry, public speaking and acting. Especially recommended for students needing concentrated study in oral communication or interested in speech arts. Open to students who have not taken 102 or 103.
Mrs. Miller, Miss Payne

102 (1), (2). FUNDAMENTALS OF SPEECH: SEMESTER COURSE (3 hrs.)

A shorter course employing the same methods of instruction and some of the materials used in 101. Open to students who have not taken 101 or 103.
Mrs. Miller, Miss Payne

103 (1). INTRODUCTION TO PUBLIC SPEAKING (3 hrs.)

A study of the forms used in speaking: description, narration, explanation, persuasion. Attention to voice and articulation through oral reading of prose and the delivery of speeches. Open to students who have not taken 101 or 102.
Mrs. Miller

202 (2). PUBLIC SPEAKING (3 hrs.)

Emphasis on analysis and criticism of types of speeches. Practice in speech

making, round table, panel discussion, debate, and open forum. Open to freshmen and sophomores who have taken 101, 102, or 103, or by permission of the instructor. Open to juniors and seniors without prerequisite. *Mrs. Miller*

205 (2). SHAKESPEAREAN THEATRE (3 hrs)

Study of the production of Shakespeare's plays in the theatre, with particular attention to Elizabethan stagecraft and to contemporary production styles; emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, same as for 202, or English 215, or by permission of the instructor. (Not offered in 1956-57.) *Mr. Barstow*

208 (1). MODERN THEATRE (3 hrs.)

Study of innovations in theatrical form and staging developing from the "new" theatre of Ibsen and his successors; revolution and development in 20th century theory and practice as exemplified in the works of representative playwrights. Reports, and scenes performed for class criticism. Prerequisite, same as for 202, or by permission of the instructor. *Mr. Barstow*

209. PRINCIPLES OF THEATRE ART (6 hrs.)

Historical and critical study of the development and practice of the theatre arts. Dramatic literature in relation to the play in performance. Historical periods and styles; staging and design; primary emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite, same as for 208. *Mr. Barstow*

ZOOLOGY AND PHYSIOLOGY

Professors: HARRIET CUTLER WATERMAN, PH.D.; GLADYS KATHRYN MCCOSH, PH.D.; EVA ELIZABETH JONES, PH.D.; MARY LELLAH AUSTIN,[1] PH.D.; LOUISE PALMER WILSON, PH.D. (Chairman)

Instructors: ALICE LOUISE BULL, PH.D.; HILDA WEYL SOKOL,[5] M.A.; LUCILE CRAVEN WESTON,[4] PH.D.; RUTH LIPPITT WILLEY, PH.D.

Graduate Assistants: GERALDINE A. D'AMICO, B.A.; GRACE SANTA LA FAUCI, B.A.; ELAINE CLAIRE MORRISON, B.A.

Lecturer: MARGARET ELLIOTT HOUCK, M.S., CURATOR OF THE MUSEUM

Custodian: KATHLEEN MILLICENT LEAVITT

101. THE BIOLOGY OF ANIMALS (6 hrs.)

A course designed to give an intelligent understanding of animal life and of the place of man in the world of living things, of what an animal is and of evolutionary sequences as provided by study of a series of forms of increasing complexity from one-celled animals through vertebrates. Lectures and discussions on evidences and factors of evolution and on heredity. Open to all undergraduates, but may not be elected after 102 or 103. Six periods a week, in general two of lecture and discussion, and four of laboratory.

Miss McCosh, Mrs. Sokol, Mrs. Willey, Mrs. Weston

[1] Absent on leave.
[4] Appointed for the first semester only.
[5] Appointed for the second semester only.

102. PRINCIPLES OF ZOOLOGY (6 hrs.)

A course designed for students who already have some scientific knowledge of animal life. A consideration of important biological principles and of man's place in nature based on a study of invertebrate and vertebrate animals. In the second semester, special emphasis on evolution and heredity. Students who have offered for admission a course in biology largely on animals which included careful dissection of several forms should apply to the Dean of Freshmen for permission to take this course. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Miss Bull, Mrs. Willey*

103. AN INTRODUCTORY COURSE IN BIOLOGY (6 hrs.)

For description and prerequisite, see Interdepartmental 103.

202 (1), (2). BASIC VERTEBRATE ANATOMY (3 hrs.)

The fundamental morphology of vertebrates, illustrated by some laboratory studies of the dogfish and a thorough dissection of the cat. Open to juniors and seniors without prerequisite, and to other students who have completed 101, 102, or 103. Not to be elected by premedical students. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Miss Waterman*

203. COMPARATIVE VERTEBRATE ANATOMY (6 hrs.)

The comparative morphology of vertebrates, with emphasis on evolutionary changes leading from the structures of primitive fishes to those of the human body. Thorough dissection of dogfish, necturus, and cat included in laboratory work. Open to juniors and seniors without prerequisite, and to other students who have completed 101, 102, or 103. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Miss Waterman*

204 (1). INTRODUCTORY ANIMAL ECOLOGY (3 hrs.)

Animals in their natural surroundings. Their behavior, life histories, relationship to their environment and to each other. Economic and medical significance of ecological knowledge. Field studies of animal communities in nearby ponds, meadows, and woodlands. Open to students who have taken 101, 102, or 103, and to juniors and seniors without prerequisite. Six periods a week, in general two of lecture and discussion, and four in the field or laboratory. *Miss McCosh*

301. (2). ADVANCED ANIMAL ECOLOGY (3 hrs.)

Selected topics dealing with such subjects as zoogeography, factors affecting natural populations, territorial behavior, navigation and migration of animals, conservation of wildlife. Special consideration of social insects, amphibians, birds, and mammals. Open to students who have taken 204 and to others by permission. Six periods a week, in general two of lecture and discussion, and four in the field or laboratory. *Miss McCosh*

303 (1). HISTOLOGY AND HISTOLOGICAL TECHNIQUE (3 hrs.)

A study of the microscopic structure of tissues and organs. Emphasis on the relation of structure and function. Some training in preparation of tissues for microscopic study. Open to juniors and seniors who have completed or are taking 202, 203, 204 or 308. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Miss Jones*

304 (2). EMBRYOLOGY (3 hrs.)

The development of an individual from its origin as a fertilized egg through the formation of the principal organs and systems. Laboratory work chiefly on the chick and the pig. Open to juniors and seniors who have completed or are taking 202, 203, 204 or 308 and to sophomores who have completed 202 or 204. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Miss Bull*

305 (2). SEMINAR. DEVELOPMENT OF MODERN ZOOLOGY (3 hrs.)

A study of the evolution of modern zoology from its early beginnings in representative periods of the past. Problems in several present-day fields of investigation used to illustrate certain trends in modern biological research. Open to juniors and seniors who have taken twelve hours of zoology, and to others with the approval of the department. *Miss Jones*

306 (1). GENETICS (3 hrs.)

The principles of heredity, based on the cytological and genetical evidence found in animals; the application of these principles to human inheritance. Class work supplemented by a few breeding tests with Drosophila. Prerequisite, same as for 305. *Miss Bull*

308. PHYSIOLOGY (6 hrs.)

(*a*) The course gives a fundamental knowledge of general physiological processes. Simple physical and chemical studies of living matter. Observations of more complex physiological processes—nutrition, circulation, respiration, excretion, nerve-muscle response, reproduction, endocrine activities. Open to students who offer as prerequisites Zoology 101, 102 or 103, and Chemistry 101 or 103; or to students who in addition to fulfilling the chemistry requirement have completed or are taking Zoology 202, 203 or 204. (*b*) The subject matter is the same as in (*a*) with the same prerequisites but a fuller knowledge of chemistry is expected. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Mrs. Wilson*

310 (2). ADVANCED HISTOLOGY (3 hrs.)

A study of organs not included in 303. Various aspects of histological research are considered in a series of reports on original papers. Individual problems afford practice in special methods of technique. Open to juniors and seniors who have completed 303. Six periods a week, in general one of lecture or discussion and five of laboratory. *Miss Jones*

312 (2).* PHYSIOLOGY OF NUTRITION (3 hrs.)

A study of the foods necessary for the normal functioning of the body and the physiological processes by means of which they are utilized for growth, repair, and energy release. Normal and faulty nutrition compared by feeding experiments with animals. Prerequisite, or corequisite, 308. Chemistry 301 is not required as a prerequisite but is recommended. Six periods a week, in general two of lecture and discussion, and four of laboratory. *Mrs. Wilson*

* Offered in alternate years.

316 (2).* PHYSIOLOGY OF THE ENDOCRINE GLANDS (3 hrs.)

The chemical control of the animal organism through the secretions of the endocrine glands. Individual problems. Prerequisite or corequisite, 308. Six periods a week, in general two of lecture and discussion, and four of laboratory. (Not offered in 1956-57.)

320 (1). SEMINAR (3 hrs.)

Intensive study of one problem or a series of related problems. Critical study of experimental methods and analysis of results. Emphasis on source material. Subject for 1956-57: selected topics on the aging process in man and other animals. Open by permission to a limited number of graduate students and seniors majoring in zoology. *Mrs. Wilson*

350. RESEARCH OR INDEPENDENT STUDY (3 or 6 hrs.)

Open to graduate students and, by permission, to seniors and juniors. The amount of work contemplated must be indicated at the time of handing in electives.

DIRECTIONS FOR ELECTION

A knowledge of chemistry is required of all students taking work in physiology and is desirable for all students majoring in the department.

Students majoring in the department may under certain conditions obtain permission from the Chemistry Department to take Chemistry 301 after having taken 101.

The department will admit properly qualified freshmen and sophomores to Zoology 203 or 204 without examination but by special permission after consultation with the chairman of the department.

SCHOLARSHIP

A scholarship is open to undergraduates in the Marine Biological Laboratory at Woods Hole (or in a biological field station approved by the student's major department). Students should consult the chairman of the department before February 15.

PLACEMENT AND EXEMPTION EXAMINATIONS

The department will offer an examination for exemption from zoology as a distribution requirement to any student who offers for admission a year course. taken in either the junior or senior year and carried at a grade of B (85) o. more, and who presents an acceptable laboratory notebook when applying for the examination.

* Offered in alternate years.

ACADEMIC AWARDS

HONORS AND PRIZES FOR UNDERGRADUATE STUDENTS

The College recognizes distinction and promise in academic work by special awards. These awards, unlike financial aid which is described on pages 127-130, are honors open to all students and are awarded without reference to need.

The College confers Freshman Honors on students who maintain high academic standing during the freshman year. It names as Wellesley College Scholars juniors and seniors who maintain high academic standing after the freshman year. The highest title conferred by the College is that of Durant Scholar, which is reserved for juniors and seniors whose scholastic records after the freshman year are outstanding. Honors in the major subject are awarded to seniors who meet the requirements outlined on pages 27-28. Trustee scholarships for graduating seniors are described below.

Seniors are elected to membership in the Eta of Massachusetts Chapter of Phi Beta Kappa on the basis of their total academic achievement in college, and seniors who are majoring in the sciences may be elected to associate membership in the Wellesley Chapter of Sigma Xi, national honorary scientific society.

Certain prizes have been established at the College for the recognition of merit in a particular field. They carry a small stipend or gift and usually bear the name of the donor or the person honored.

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATES OF WELLESLEY

On recommendation of the faculty the trustees award to two seniors the title of Trustee Scholar and to two others the title of Alternate Trustee Scholar. Selection is made on a competitive basis from seniors who intend to pursue graduate studies and who apply for the award. The title is honorary; in cases of financial need stipends are awarded to the Scholars or, if not required by them, to Alternate Scholars who need financial assistance.

Four other fellowships and scholarships are open only to Wellesley College alumnæ. The Horton-Hallowell Fellowship, established by the Alumnae Association, provides $1,500 a year for a graduate of Wellesley College who is a candidate for the Ph.D. degree. The Vida Dutton Scudder Fellowship provides $1,500 a year for a promising candidate either in the field of social or political science or in the field of literature. The Fanny Bullock Workman Scholarship provides $1,200 a year for further

study by an alumna who has completed at least one year of graduate study.

The Moffett Scholarship, which is awarded in alternate years, provides $1,000 preferably for a young alumna to begin graduate study in history.

Graduates of Wellesley College are eligible to compete for three fellowships of $2,000 which are awarded annually by the American School of Classical Studies in Athens to graduates of certain cooperating colleges, of which Wellesley is one. In addition, qualified graduates of Wellesley are exempt from any charge for tuition at the American School of Classical Studies in Athens and at the American School of Classical Studies in Rome, which is an integral part of the American Academy in Rome.

ASSISTANTSHIPS, FELLOWSHIPS, AND SCHOLARSHIPS OPEN TO ALUMNAE OF ANY COLLEGE, INCLUDING WELLESLEY

Certain assistantships and fellowships are available for candidates for the degree of Master of Arts at Wellesley College. For details concerning them, consult *Graduate Study at Wellesley College*, which may be obtained from the Secretary of the Committee on Graduate Instruction, Wellesley College.

Four graduate fellowships for study at the institution of the candidate's choice are administered by Wellesley College and are open to alumnae of any college. They are the Amy Morris Homans Fellowship, providing at least $1,900 annually for one or more candidates; the Alice Freeman Palmer Fellowship, yielding an income of $1,400; the Anne Louise Barrett Fund, providing an income of $1,100; and the Harriet A. Shaw Fund, providing $800 annually. Candidates for the Palmer Fellowship and the Barrett Fund must have completed at least one year of graduate study. In making awards from the Barrett Fund and the Shaw Fund preference will be given to candidates in the field of music, while the Homans Fellowships are specifically reserved for graduate work or special projects in physical education. Information about these awards and application blanks for them may be obtained from the Secretary to the President, Wellesley College. Application should be made by February 15.

ADMISSION

ADMISSION OF FRESHMEN

Each spring eight members of the faculty and administration meet as the Board of Admission to select the incoming freshman class. They regard as essential for admission intellectual ability, interest in learning, good character and health. From the candidates who meet these essentials they try to select a class which will have a complementing variety of individual interests and will represent many different public and independent schools throughout the United States and abroad. The Board of Admission reserves the right to determine in all cases which candidates shall be admitted.

As evidence of a candidate's ability the Board considers her secondary school record, the recommendation of her school, information about her independent reading, her extracurricular and special interests, and intelligence tests which she may have taken, and her record on the required College Board Entrance Examinations. It finds reports of interviews with a staff member in the Office of Admission or with a representative of the College in the candidate's home region helpful. An interview is not required, but candidates are encouraged to visit Wellesley to discuss their college plans. If they live at a distance they should ask the Director of Admission to inform them if a representative of the College will be available for interviews in their region or they should seek out the nearest Alumna Acquaintanceship Chairman. (See list on pages 133-137.)

Secondary School Preparation

In general, candidates are expected to complete a full four-year secondary school course. A sound program of studies in preparation for entrance to Wellesley College includes four years of English grammar, composition, and literature; Latin or Greek and a modern foreign language, one of the preceding carried, if possible, through at least a third year; one or more of the following fields of history: American, Ancient, Medieval, Modern European; three years of mathematics: algebra, intermediate algebra, geometry; one or more laboratory sciences: biology, chemistry, physics. To make up the total of 16 credits generally recommended for admission to Wellesley, electives may be offered in additional courses in the subjects listed above or in, for example, history or fundamentals of music, history or appreciation of art, or Biblical history. Admission credit is not given for courses in typewriting, although this skill is helpful to the college student and the Board of Admission urges candidates to learn to typewrite in secondary school or during a summer vacation.

Because secondary school curricula vary widely, some applicants may be unable to study some of the subjects recommended for admission. There

may also be candidates who are ready for college work before completion of four years of secondary school. Therefore the Board of Admission is glad to consider the applications of candidates whose school work differs in extent or in program from the normal preparation for college, provided that there is evidence of continuity and sound work in the study of basic subjects. The Director of Admission will comment on the suitability of the program of any candidate who wishes to submit it in advance of registration. She welcomes correspondence with candidates, their parents, and school advisers on any matter concerning admission to the College and information from schools about new courses and curricular plans.

Candidates who have participated in classes organized under the School and College Study of Admission with Advanced Standing are urged to take the Advanced Placement tests of the College Entrance Examination Board. Satisfactory performance in these examinations may admit a student to advanced courses at Wellesley. Further information will be found on page 28 in the section entitled Advanced Placement and Exemption Examinations.

Application For Admission

Admission forms may be secured from the Director of Admission, Wellesley College, Wellesley 81, Massachusetts. A fee of fifteen dollars must accompany the formal application. This fee is not refunded if a candidate withdraws her application or is not admitted.

Students are urged to register for admission early in their secondary school course so that the Director of Admission may, when necessary, advise them about their school programs and so that they may receive current information about the College. Although early application is not a factor in determining admission, it is one of the considerations in assigning dormitory rooms to freshmen.

Applications for admission must be filed not later than *February 1* of the year of entrance. Candidates will be notified in May of the action on their applications.

College Board Entrance Examinations

Candidates for admission to Wellesley must take the Scholastic Aptitude Test, both the verbal and mathematical sections, and three Achievement Tests of the College Entrance Examination Board. Among the three Achievement Tests they must take the test in English Composition and two others, to be chosen from foreign languages, social studies, science, and mathematics. They are advised to choose one test in a foreign language and one test in either social studies, mathematics, or a science.

They may not offer the spatial relations test. The Scholastic Aptitude Test must be taken in *January* and the Achievement Tests in *March* of the senior year in school unless the Director of Admission approves of other timing.

All College Board tests are designed to be taken without special preparation. Candidates who wish to take the Scholastic Aptitude Test for guidance purposes at the end of the junior year are encouraged to do so. In this case the College Entrance Examination Board should be asked to forward the results of the preliminary tests to the College. The Director of Admission can then give additional assistance to candidates who seek advice about their candidacy.

APPLICATION FOR THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

Each candidate for admission is responsible for making proper application to take the College Board tests and for having the results of the tests sent to the College.

Candidates living in states from Montana to New Mexico and west should send inquiries to the College Entrance Examination Board, P.O. Box 27896, Los Angeles 27, California. Candidates from all other states and candidates applying from foreign countries should send inquires to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. The College Board sends a copy of its Bulletin of Information to every candidate requesting an application blank.

The fee for the Scholastic Aptitude Test is six dollars and that for the set of three Achievement Tests is eight dollars. The fee must accompany the application and may be remitted by money order or check. Late applications are subject to a penalty fee of three dollars in addition to the regular fee. Under no circumstances will the College Board office accept an application if it is received at its office later than one week prior to the date of the examination.

Applications and fees should reach the College Board offices not later than the dates specified below:

Dates of Tests	Applications and Fees Due
January 12, 1957	December 15, 1956
March 16, 1957	February 23, 1957
May 18, 1957	April 27, 1957

FINANCIAL AID

Candidates who will require financial assistance in order to attend Wellesley should read carefully the information on pages 127-130.

ADMISSION OF TRANSFER STUDENTS

If a student has maintained an excellent record in an accredited junior college, college, or university and has special interests which she wishes to follow at Wellesley, she may apply for admission to the sophomore or junior class. The number of students who can be admitted to these classes is small, and only students with unusually good records are encouraged to apply. A candidate for admission as a transfer student must be entitled to honorable dismissal from the college which she has attended, and she must be recommended by her instructors and dean.

Application should be made to the Director of Admission, Wellesley College, Wellesley 81, Massachusetts, as early as possible and in general not later than April 1 of the year in which admission is sought. The selection of students is made in May and in July of the year in which entrance is desired.

A candidate must present evidence that she has studied in school the subjects required for admission to the freshman class at Wellesley, and she must have achieved a satisfactory score on the Scholastic Aptitude Test of the College Entrance Examination Board. If she did not take the Scholastic Aptitude Test while in secondary school, she should make arrangements to do so. Information concerning this test may be obtained from the College Entrance Examination Board. (See pages 114-15.)

When requesting an application for admission, a candidate should send a statement setting forth her reasons for wanting to transfer to Wellesley, a transcript of her school and college records, and the names of her dean and two instructors who know her well. She should also arrange directly with the College Entrance Examination Board to send to the Director of Admission her scores on all College Board tests which she has taken. No application will be registered until all of this material has been received by the Director of Admission. Admission forms will be sent to those candidates who can be encouraged to file a formal application. A fee of fifteen dollars must accompany the application. This fee is not refunded if a candidate withdraws her application or is not admitted. The Board of Admission reserves the right in all cases to determine which candidates shall be admitted.

Credit for courses completed at another college is tentatively granted early in the first year of residence at Wellesley, but determination of credit, which depends upon the quality of the student's work at Wellesley, is not made until the end of the year.

READMISSION

A student who has withdrawn from the College is not automatically readmitted. She should make application for readmission to the Secretary

of the Committee on Student Records. A non-refundable fee of fifteen dollars must accompany the application.

ADMISSION OF FOREIGN STUDENTS

Students living in foreign countries who wish to enter Wellesley College are asked to make application well before February 1 of the year in which they wish to enter college. The application should be accompanied by a letter from the student giving her reasons for wishing to study in the United States and a detailed statement of her previous educational experience or a transcript of her record. Inquiries concerning admission and scholarships should be sent to the Foreign Student Adviser, Wellesley College, Wellesley 81, Massachusetts.

ADMISSION OF GRADUATE STUDENTS

Wellesley accepts a limited number of candidates for the degree of Master of Arts. A summary of requirements for the Master's degree appears on page 31. Interested students should write to the Chairman of the Committee on Graduate Instruction, Wellesley College, Wellesley 81, Massachusetts.

GENERAL INFORMATION AND REGULATIONS

REGISTRATION

Each student must register in her residence hall at the beginning of each college year. The time of registration is stated in the calendar on page 6.

FRESHMAN ORIENTATION

Entering students come into residence two days before most upperclassmen. During this period they meet the Dean of Freshmen, other administrative officers, and a group of upperclassmen who answer their questions and help them to become acquainted with the activities and traditions of the College. They visit the library, take physical examinations and appropriate placement tests, and have opportunity to consult their dean should changes in their programs of study seem advisable. Appointments and events of various types are scheduled for entering students during their first week at Wellesley.

RULES OF RESIDENCE

Wellesley maintains fourteen residence halls. Students in proportionate numbers from all four classes live in the twelve large halls, each of which has its own living rooms and dining room. Approximately one hundred freshmen live in the two smallest dormitories and share a nearby dining hall. Each hall has a Resident Head, interested in the welfare of the individual student, who with the students in her house seeks to create an environment which invites study and intellectual discussion as well as relaxation and entertainment of friends. Residence in college halls is required of all unmarried undergraduate students except those who live with their parents near the College.

Ordinarily married students may not live in residence, because the College believes in general that women should postpone marriage until they are ready to establish their own homes. If such students can commute from their own homes, they may register as non-resident students. In special circumstances, if weighty reasons exist for not postponing marriage until a household can be established and if permission to live at the College has been requested and received from the Dean of Students considerably in advance of the marriage, a married student may live in residence.

Rooms are assigned to entering students by the Director of Residence, who seeks to maintain in each hall representative regional diversity and to consider individual preferences in the order of dates of application for admission. Regulations for moving from one hall to another at the end of the first and second years may vary from time to time. When

moves are made, they are determined by lot. Only juniors are promised in advance that if they wish they may continue in the same residence hall for the following year.

Respect for the residence standards and the property of the College is a requirement for continued residence. Each student receives a copy of the specific rules of residence to which she is expected to conform; these are established by College Government or, in areas of health and safety, by administrative decision. Because of high operating costs, each student is asked to care for her room and give three to four hours a week to light housework, which is scheduled by elected student heads of work.

Rooms are equipped with essential furniture. Students are expected to furnish blankets and couch covers, and to furnish bed linen and towels or rent them from a supply company designated by the College. A list of permissible additions is sent to each entering student, but the College accepts no responsibility for the personal property of students. The College reserves the right to inspect any dormitory room at any time and to dispose of articles remaining unclaimed after due notice or after a student has left college, either by withdrawal or graduation.

In general, residence halls are closed during Christmas and spring vacations. One hall is kept open on a *per diem* basis for the convenience of students. A Resident Head is in charge of the vacation house.

WITHDRAWAL AND EXCLUSION

A student who plans to withdraw must inform her class dean and fill out a blank obtained from the Office of the Recorder. The official date of withdrawal is the date on which the Recorder receives the signed withdrawal blank.

The College reserves the right to require the withdrawal at any time of a student whose academic work falls below its standards or who in the opinion of the college authorities should not remain at Wellesley. In the latter case no specific reason need be assigned.

HEALTH

The College emphasizes preventive medicine. The services of four college physicians, one of whom is a psychiatrist, are available to students without charge. Campus employees are examined by a college physician. Food is carefully selected by the college dietitian and prepared under her direction. Cleanliness in the residence halls is maintained by the cooperative efforts of College Government and administrative officers.

The infirmary, which is in the charge of the Resident Physician, consists of an outpatient clinic, a modern 29-bed hospital, and a residence wing for physicians and nurses. When a student is admitted as a bed patient, a routine notice is sent to her parents. Each resident student is

allowed six free days in the infirmary each year when prescribed by a college physician, provided that no extra service is required. Only three of the free days may be taken at any one time; thereafter an infirmary charge of seven dollars a day is made. Charges for special services are determined in the usual way, according to the type and amount of service rendered.

To supplement the free service, the College strongly recommends purchase of a group student health and accident insurance policy for which it has made arrangements. The insurance gives protection to the student over a twelve-month period whether or not in residence at the College. Information concerning it is sent to parents in the fall.

The college physicians give each entering student a physical examination and study carefully the health information which the College requests of parents and family physicians in connection with admission. This information helps the college physicians to decide whether the student should be placed in remedial or restricted physical activity in the department of Physical Education and may be useful should a student become ill. It also makes possible cooperation with home physicians in continuing necessary treatment. For these reasons the requested information should be complete and accurate; failure to supply full information initially may result later in exclusion from college. Many types of illness and disability are not insurmountable handicaps at Wellesley, but the College cannot supply special diets or encourage the entrance of students who find walking very difficult.

Cooperation with the college physician is a requirement of residence. A student in residence must notify a college physician before consulting a physician outside of the College. If a student leaves the campus for reasons of health, she must inform a college physician before she leaves. If she becomes ill when away from the campus, she should inform her class dean immediately and must take to the infirmary upon her return a statement signed by the attending physician.

The proximity of the College to Boston permits early consultation between college physicians and specialists whenever advisable. In case of serious illness parents are notified by telegram or telephone, but the College reserves the right to make decisions concerning operations and other health matters if parents cannot be reached at a time when decision seems imperative.

CLASS DEANS

Class deans are the interpreters of the academic and other policies of the College and are ready to discuss informally with individual members of their class any academic or personal problem which the student may have. The deans are officers of the College and members of the faculty

who are relieved of some of their teaching duties. During the freshman and sophomore years, when students are adjusting to college life and are selecting their major fields of study, each class has its own continuing dean. In the junior and senior years the Dean of Students, working with faculty advisers, is the class dean. She is also chairman of the class deans and is interested in the welfare and development of students in all four classes. (In 1956-57, a transition year, the Class of 1957 will continue to have its former dean.)

ACADEMIC STANDARDS

Each student is given full responsibility for her attendance at classes and for the timely preparation of her work. In case of illness or other difficulty she should consult her dean for assistance in making special arrangements for her studies.

The student is expected to prepare all her work with integrity and to abide scrupulously by the regulations of the faculty concerning academic work. The College attaches major importance to this. A student who finds herself in doubt as to a proper method or course of action should consult her instructor or dean immediately.

The record of any student whose work falls below the expected quality is reviewed by a committee of the faculty. The student is warned and every effort is made to assist her to improve the quality of her work. Because of the selective policies of admission, exclusion for academic weakness rarely occurs if a student has made consistent effort to meet the requirements.

BUILDINGS AND GROUNDS

ACADEMIC AND COMMUNITY BUILDINGS

(Listed in order of their construction)

The Students' Organization Center is the only remaining part of the original College Hall, erected in 1875. After long use as a science building, it became the center for student organizations in 1956.

Music Hall, erected in 1880, and the adjacent Billings Hall are used by the department of Music. They contain classrooms, listening rooms, practice studios, a small auditorium, offices, libraries of music books, scores, and phonograph records, and a variety of musical instruments, including an organ, a baroque organ, a clavichord, and a harpsichord.

Simpson Infirmary was the gift of M. H. Simpson in memory of his wife, who had been a trustee of the College. It was erected in 1881 as a residence hall, later became the infirmary, and now provides living quarters for the college physicians and nurses. In 1942 a new wing containing a 29-bed hospital and a clinic was erected and connected with the old infirmary.

The Farnsworth Art Building, built in 1889, was made possible by the bequest of Isaac D. Farnsworth. It contains the art library, museum, classrooms, and studios. The museum collection includes choice examples of classical and medieval art; sculptures by Sansovino, Lehmbruck, and Maillol; a famous early Corot and other paintings by such artists as Crespi, Magnasco, Strozzi, Terborch, Cezanne, and Picasso; and, on extended loan, works by Piero di Cosimo, Rubens, Rodin, and Copley.

The Houghton Memorial Chapel was presented in 1899 by Miss Elizabeth G. Houghton and Clement S. Houghton as a memorial to their father, William S. Houghton, a trustee of the College. In it are stained glass windows commemorating the founder and several former members of the College, and a famous tablet by Daniel Chester French in memory of Alice Freeman Palmer, Wellesley's second president.

The Whitin Observatory was erected in 1900, the gift of Mrs. John C. Whitin, a trustee of the College. It contains laboratories, darkrooms, and the library of the department of Astronomy. Its extensive research equipment includes six-inch and twelve-inch Clark visual refractors.

Billings Hall, used by the department of Music (see Music Hall, above), was erected in 1904 as a gift from the estate of Robert Charles Billings.

Mary Hemenway Hall, the gymnasium, was erected in 1909 when the Boston Normal School of Gymnastics affiliated with the College and Mrs. Mary Hemenway of Boston provided the funds for this building. It contains an indoor gymnasium, offices, and lecture rooms.

The Library building, erected in 1910 and enlarged to its present size

in 1916, was the gift of Andrew Carnegie. It contains approximately 300,000 volumes which include a number of special collections, among them the English Poetry Collection created by George Herbert Palmer and added to by Katharine Lee Bates, Elizabeth Manwaring, and Sara Teasdale, the Browning Collection, the Plimpton Collection of Italian books and manuscripts, and the Elbert Collection on the Negro in slavery. Two other collections, the Laura Hibbard Loomis Collection of Medieval Literature and the collection on the Far East given by the Mayling Soong Foundation, while not housed separately, enrich the resources of the library. The Rare Book Collection contains manuscripts and a small collection of rare books and first editions which range in time from a copy of the Ratdolt Euclid printed in 1482 to the books issued by the contemporary Grabhorn Press.

THE ANNE L. PAGE MEMORIAL SCHOOL, for children from three to six years old, occupies two small buildings, the first of which was erected in 1913. It is equipped with one-way screens enabling students to observe the children effectively without themselves being seen.

FOUNDERS HALL, a classroom building for the humanities, social sciences, and mathematics was erected in 1919. Dedicated as a memorial to Mr. and Mrs. Henry Fowle Durant, it was built from the Restoration Fund which trustees, faculty, alumnae and friends of the College secured after the College Hall fire.

ALUMNAE HALL, the gift of the alumnae, was built in 1923. It houses the largest auditorium on the campus, a ballroom, the studios of the campus radio station, and "The Well," the campus snack bar.

SAGE HALL is named in honor of Mrs. Russell Sage, its principal donor. The unit for botany was erected in 1927 and that for zoology and physiology in 1931. In 1956 the building was remodeled and enlarged to provide facilities also for geography and geology. It contains the laboratories, lecture rooms, and offices of the four departments, a library, a teaching museum and display areas for the departments of Botany and Bacteriology, Geology, and Zoology and Physiology. Equipment for the research of students and faculty includes greenhouses with a range of climates from tropic to desert, a vivarium, an aquarium, and extensive map collections, some of them as a depository for the U.S. Geological Survey and the U. S. Army Map Service.

HETTY H. R. GREEN HALL, erected in 1931, was in large part the gift of Mrs. Green's son and daughter, Colonel Edward H. R. Green and Mrs. Matthew A. Wilks. It contains the administrative offices of the College, class and seminar rooms, and the faculty assembly hall. The Galen L. Stone Tower, named for its donor, who was long a trustee of the College, houses a carillon which was the gift of Mrs. Charlotte Nichols Greene.

PENDLETON HALL, erected in 1935, was named at the request of the

students in honor of Ellen Fitz Pendleton, president of the College from 1911 to 1936. It contains the laboratories, lecture rooms, libraries, and offices of the departments of Chemistry, Physics, and Psychology. Extensive facilities and equipment provide opportunity for advanced work in various fields of chemistry, including chemical spectroscopy and instrumental analysis; in optics, electronics, and atomic physics; and in various types of experimental psychology.

THE RECREATION BUILDING was opened in 1939. It contains game rooms, badminton and squash courts, lounges, and the George Howe Davenport Swimming Pool which bears the name of the trustee who gave generously toward its construction.

RESIDENCE HALLS

The fourteen residence halls for undergraduate students compose three groups on the campus. Each group is approximately the same distance from the central academic buildings. In the northwest section are Munger Hall and Hazard Quadrangle, which is formed by four halls, Beebe, Cazenove, Pomeroy, and Shafer. Tower Court, Claflin, and Severance Halls are together on the hill overlooking Lake Waban where the original College Hall once stood. The third group stretches east from Stone and Davis on the lake shore to Bates and Freeman, the newest halls, and to Navy and Homestead, which are all-freshman houses.

MUNGER HALL, which houses about 125 students, was given by Miss Jessie D. Munger, of the Class of 1886, in honor of her mother, Gertrude C. Munger. Each of the halls in the HAZARD QUADRANGLE, which is named in honor of Wellesley's fifth president, accommodates about 120 students. BEEBE was made possible by a legacy from Captain John Allen Beebe, a Nantucket sea captain and the father of Alice B. Beebe, of the Class of 1896. CAZENOVE, the gift of Pauline Durant, who with her husband founded the College, bears the name of Mrs. Durant's mother; POMEROY, too, is named for its donor, Mrs. Martha D. Pomeroy, who bequeathed the funds to build it. SHAFER honors the memory of Wellesley's third president.

TOWER COURT, so named because of its tower in the central part separating the two wings and because of its courtyard overlooking the lake, houses approximately 245 students. It was the gift of Ellen Stebbins James. CLAFLIN accommodates about 120 and SEVERANCE 145 students. CLAFLIN is named in memory of William Claflin, governor of Massachusetts and a member of the original corporate body of the College in 1870, while SEVERANCE bears the name of Elizabeth Severance Prentiss, of the Class of 1887, who was the largest individual donor to the building.

STONE and DAVIS HALLS house about 90 students each. The present Stone Hall was built on the site of old Stone Hall, which was made possi-

ble by a bequest from Mrs. Valeria G. Stone. John D. Rockefeller, Jr., made generous contributions toward the present Stone and Davis Halls. Olive Davis, for whom Davis Hall is named, was a member of the Class of 1886 and for many years Director of Residence at Wellesley; upon her death she made Wellesley her residuary legatee. BATES HALL is named in memory of Katharine Lee Bates, of the Class of 1880, for many years a professor of English literature at Wellesley, and FREEMAN HALL in memory of Alice Freeman Palmer, Wellesley's second president. Each of these dormitories houses 137 students. Connected with them is the Hart Dining Room, which commemorates Sophie Chantal Hart, long a professor of English composition and by bequest a generous donor to the College. Approximately 110 freshmen live in NAVY and HOMESTEAD and share the Hart Dining Room. Homestead was the original home at Wellesley of Mr. and Mrs. Durant; Navy derives its name from the fact that it was moved to the campus from a Naval Air Station where it had been quarters for women officers during World War II.

THE GROUNDS

The campus is a self-contained unit of four hundred acres bordering on a lake two and a half miles in circumference. The grounds, like the buildings, facilitate study and provide opportunity for recreational and extracurricular activities. Students of botany not only have their own small gardens but benefit from the special planting provided by the donors of the Hunnewell Arboretum and the Alexander Botanical Gardens. Another feature of the grounds is the Hay Outdoor Theater, the gift of Alma Seipp Hay of the Class of 1899. This hillside theater is used for curricular projects, such as plays given by the department of Greek, and for productions by student organizations. Facilities on the campus for outdoor sports include a nine-hole golf course, tennis courts, playing fields for hockey and lacrosse, and an archery range. Lake Waban makes possible crew and canoeing, swimming and ice-skating.

FEES AND EXPENSES

The annual, inclusive fee for tuition, board, and room is $1900. This fee represents approximately three fourths of the cost to the College for each resident student; the difference is made up from endowed funds and gifts. The times of payment for resident undergraduate students are as follows:

Standard Plan:

July 10 (for freshmen, June 1), deposit, not refundable, to reserve a place at Wellesley for the following year. Failure to make the deposit forfeits enrollment for the year.	$ 50
September, at the opening of college	$925
February, at the beginning of the second semester	$925

Alternative Plan:

If this plan is used the parent or guardian accepts obligation to pay for the entire semester.

July 10 (for freshmen, June 1) (See requirement under Standard Plan)	$ 50
First semester: four installments, in September, November, December, January, each $232.25	$929
Second semester: four installments, in February, March, April, May, each $232.25	$929

Payments should be sent to the Assistant Treasurer, Wellesley College, Wellesley 81, Massachusetts. Because the College necessarily makes commitments in advance for instruction and living arrangements, no reduction or rebate of the fee can be made in the case of illness, withdrawal, dismissal, or for any other reason. Fees must be paid before the student may attend classes at the start of the first or second semester, and all college charges must be met before the diploma is awarded. The College reserves the right to revise the fee at the end of any year should conditions make it necessary.

Undergraduate students who wish information concerning non-resident fees should write to the Assistant Treasurer. Graduate students should consult the bulletin on *Graduate Study at Wellesley College* for fees and fellowship opportunities.

Special Fees and Expenses

A non-refundable application fee of $15 is required of all candidates for admission and readmission (see page 117). Infirmary fees for care in excess of the free days allowed by the College are stated on pages 119-120. Fees for instrumental and vocal lessons are stated on page 86. There are no other college fees. The student should plan, however, on an annual expenditure of $50 to $100 for books, supplies, and subscriptions, and at least $150 for incidentals and recreation.

FINANCIAL AID

Financial aid at Wellesley is given only to students who need assistance in order to attend Wellesley.* The aid may take the form of a gift scholarship, a loan, or a work scholarship; usually it consists of a gift supplemented by a loan and/or work scholarship.

Because funds are limited, preference among the accepted candidates for admission who require assistance is given to the students with the best admission credentials. The geographical area from which the applicant comes is also considered. For students in college, awards are reviewed annually and are renewed, provided they are needed, so long as the student maintains a good academic and civic record. Ordinarily students who receive financial aid work during the summer in order to contribute to their expenses of the following year. Earnings vary with the type of employment, but in general the Committee on Scholarships estimates that a student can earn between $250 and $300 during the summer.

Approximately 25 percent of the students receive some form of financial aid. Total awards each year amount to more than $315,000. Of this sum about $245,000 comes from the College's endowed funds, appropriation of current income, and gifts made to the College by alumnae clubs and individuals. About $70,000 comes from endowed funds of the Wellesley Students' Aid Society and gifts to it from alumnae clubs and individuals. In addition, about thirty percent of the students earn some money during the academic year by obtaining work through the Placement Office.

APPLICATION FOR FINANCIAL AID

The Committee on Scholarships acts with power in the selection of holders of awards and in determination of the amount of each award. In making awards to entering students, it considers only those applicants who were registered candidates for admission by February 1 of their senior year in school and who completed in full and presented at the times and places noted below the following two scholarship forms.

One form is the "Wellesley College Application for Financial Aid," a copy of which will be sent upon request addressed to the Executive Secretary of the Committee on Scholarships, Wellesley College, Wellesley 81, Massachusetts. It must be filled out completely and returned to her by February 1 of the year of entrance.

The other form, which asks for a financial statement from parents, is issued by the College Scholarship Service of the College Entrance Examination Board. Anyone may secure a copy by writing to the College Scholarship Service, Box 176, Princeton, New Jersey, unless the parents live in or west of Montana, Wyoming, Colorado, or New Mexico, in which case they should write to Box 27986, Los Angeles 27, California. For the convenience of students who are registered for admission at Wellesley, the

* For special conditions of award of tuition scholarships to residents of the township of Wellesley, see page 129.

Executive Secretary of the Committee on Scholarships will enclose copies of the College Scholarship Service form when a registered applicant writes to her for the Wellesley College form. The College Scholarship Service form should be filled out completely and sent before February 1, not to Wellesley, but to the College Scholarship Service at the address given above. The Service will then forward a copy for confidential use only to the college or colleges which the parents of the applicant designate.

Candidates for admission who have sufficient money for the first year but who expect to need assistance for the later years should inform the Executive Secretary of the Committee on Scholarships by March 1 of the year of entrance. The Committee on Scholarships endeavors to allocate funds so that students to whom scholarships have been awarded may continue to have financial help as needed and merited throughout their course. The Committee must also reserve some funds for students who later may be faced with emergencies and for students who can finance the first year but know from the beginning that later assistance will be needed; hence the request for information if future need is expected. Students who indicate this fact in advance will be given consideration for financial aid in following years ahead of students who know but do not state before entrance that their resources will not carry them through the four years.

Applications from students in college should be filed with the Executive Secretary of the Committee on Scholarships on forms obtained from her office. Instructions concerning applications are posted shortly before the Christmas vacation.

GIFT SCHOLARSHIPS

Endowed Funds. The endowed funds for undergraduate scholarships amount to nearly $4,500,000. They include the large, general scholarship fund and more than two hundred other endowed scholarship funds for undergraduates, each of which bears the name of the donor or a person whom he wished to honor.

The number of named scholarships necessitates use of a separate publication of the College, *The Scholarship Funds of Wellesley College,* in order to present the complete list. It is not necessary for applicants to consult this publication in advance inasmuch as they apply to the College for whatever assistance they will require and do not apply specifically for any one of the named funds. Each student who receives a grant is informed of the scholarship which she holds, and when possible the College sends to the donor whose generosity has provided the fund a statement on the progress of the holder.

Pendleton Scholarships. Fifteen of the entering freshmen who receive scholarships may be named Pendleton Scholars. These scholarships are

awarded in memory of Ellen Fitz Pendleton, President of the College from 1911 to 1936. Eight of the Pendleton Scholarships are awarded on a regional basis: New England States, one: Middle Atlantic States, one; Southern States, two; Central States, two; Western States, two. The remaining seven may be awarded to students from any part of the country. Stipends vary in terms of need. Entering freshmen do not apply specifically for Pendleton Scholarships. They apply to the Committee on Scholarships for financial assistance; the Committee then designates the particular scholarship which the student shall hold.

Seven College Scholarships. Twenty-one of these scholarships are awarded annually by the Seven College Conference, an informal association of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley. Each college offers one scholarship in each of the following areas: Central States (Colorado, Kansas, Missouri, Nebraska); Southwest (Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas); Far West (California, Idaho, Oregon, Washington). The stipends vary according to need and may amount to the full expenses for tuition and residence.

Further information and application blanks for the Seven College Scholarships may be obtained from the Director of Admission, Wellesley College, Wellesley 81, Massachusetts. Applications must be filed by January 30 of the year of entrance.

Town Scholarships. The College offers ten tuition scholarships to students who meet the standards for admission and are residents of the township of Wellesley. These tuition scholarships are renewable so long as the student remains of diploma grade standing at the College and continues to reside in Wellesley. Selection of Town Scholars is made by the Selectmen of the Town of Wellesley.

WORK SCHOLARSHIPS

Work Scholarships are advance guarantees of paid employment during the academic year. They assure holders that they will earn $100 to $150 a year toward their fee by working three to five hours a week in the library, academic departments, campus snack bar, etc. Students are selected to hold Work Scholarships on the basis of proficiency in the work involved and of personal qualities. In general, these scholarships constitute a part of a larger award.

LOANS AND SPECIAL AIDS

The Wellesley Students' Aid Society was established in the early days of the College by Mrs. Henry Fowle Durant, the wife of the founder, at a time when the College had no scholarship funds. Now the Society works

in close cooperation with the College Committee on Scholarships to supplement college awards with gifts and loans. Its scholarship gifts are made for one year at a time to students who have applied to the Committee on Scholarships for financial aid; they are renewable on the same bases as college awards. The student who receives a gift scholarship from both the College and the Students' Aid Society has all the benefits of a single award and receives more assistance than could be given to her from either source alone.

In addition to funds for scholarship gifts, the Society has loan funds which enable students and their parents to spread the cost of the college education over a longer period than four years. On the basis of individual records and of the financial statements which the student has filed with the Executive Secretary of the Committee on Scholarships, the Society determines who shall have loans and the size of each loan.

The Students' Aid Society also renders personal assistance to students through loans of books and other items and through gifts of clothes and small amounts of money for incidental expenses and emergencies.

EMPLOYMENT

The Placement Office assists students and alumnae who are interested in employment opportunities. It helps students to obtain summer positions and part-time work in the winter and helps seniors and alumnae to locate positions upon graduation and later in their careers.

During the academic year caring for children provides the largest number of job opportunities. Within the College three exchanges dealing with furniture, books, and food afford regular work for a number of students. Agencies for newspapers, magazines, laundry, and dry cleaning yield substantial returns to some students. Clerical work and other positions are also available, but students are cautioned against depending upon employment during the academic year for any considerable income. Summer opportunities are varied and provide more remuneration.

Students and alumnae may consult the staff and use the vocational library of the Placement Office at any time for information and suggestions concerning present work opportunities and future career possibilities. Lectures and discussions on occupations are arranged for students, and information is made available concerning training courses, apprenticeships, and graduate assistantships. Upon payment of a small fee a senior may register permanently with the Placement Office. The Office arranges interviews for registered students with employers who come to the College and informs senior and alumnae members of various openings; it collects credentials and thereafter keeps up-to-date the papers of each interested registrant to be sent to prospective employers and others upon request.

SUMMARY OF STUDENTS

Candidates for the B.A. degree		1,696
Senior	370	
Juniors	394	
Sophomores	449	
Freshmen	483	
Candidates for the M.A. degree		15
Non-candidates for degrees		4
Total registration October, 1956		1,715

Geographical Distribution of Students by Home Address

Alabama	7	Tennessee	8
Arizona	5	Texas	37
Arkansas	6	Utah	2
California	37	Vermont	8
Colorado	14	Virginia	17
Connecticut	112	Washington	6
Delaware	16	West Virginia	6
District of Columbia	33	Wisconsin	18
Florida	14		
Georgia	8	Hawaii	3
Idaho	4	Puerto Rico	2
Illinois	79		
Indiana	22	Belgium	1
Iowa	11	Brazil	1
Kansas	10	British Guiana	1
Kentucky	16	Canada	7
Louisiana	11	Chile	1
Maine	26	Cuba	1
Maryland	36	England	3
Massachusetts	251	France	1
Michigan	23	Germany	1
Minnesota	28	Greece	4
Mississippi	2	Hong Kong	2
Missouri	37	India	2
Montana	2	Italy	2
Nebraska	6	Jamaica	1
New Hampshire	17	Japan	1
New Jersey	155	Korea	4
New Mexico	1	Lebanon	1
New York	299	Mexico	3
North Carolina	9	Norway	1
North Dakota	4	Pakistan	1
Ohio	97	Peru	1
Oklahoma	13	Philippines	1
Oregon	10	Thailand	2
Pennsylvania	116	Turkey	1
Rhode Island	16	Union of South Africa	1
South Carolina	5	Venezuela	3
South Dakota	2		
		Total Students	1,715

ALUMNAE INTERESTS

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FORMS OF BEQUEST

I give to Wellesley College, a Massachusetts corporation, free and clear of all inheritance taxes, the sum of ..... dollars.

I give to Wellesley College, a Massachusetts corporation, free and clear of all inheritance taxes, the sum of ..... dollars. The principal of this bequest shall be held and may be mingled with other endowment funds of the College for investment purposes. The net income shall be used for [here describe the intended purpose, as, for example, faculty salaries in . . . . ., using general language so that by inadvertence in the choice of words the College will not be prevented from applying the income to the intended purpose in the most efficient way]. If, due to changed circumstances in the future, the Trustees of the College shall determine that all or part of the income cannot be used to the best advantage for the above purpose, then all or any balance of the income not so expended may be used for any educational purpose of the College approved by the said Trustees.

If the bequest is residuary, it should read:

"All the rest, residue and remainder of my real and personal estate, I devise and bequeath to Wellesley College, a Massachusetts corporation," etc.